



6-7 FEB 2001

# Agenda



## Day One:

0830 - 0850	Opening Remarks	Mr. Rich Glover
	Mission /Organization of PM NMCI/IT	Mr. Rich Glover
0850 - 0920	MCHS Background	Mr. Al Cruz
0920 - 0930	Mission/Goal of HWG	Mr. David Nguyen
	Voting Members & Roles	
0930 - 0940	Break	
0940 - 1130	MCHS Program Status	Major M. D. Jones
	MCHS Budget & Funding Issues	Major M. D. Jones
	MCHS Metrics	Mr. Al Cruz
	Health of MCHS	Mr. Al Cruz
	MCHS R&D	Mr. Al Cruz
	Relationship Among NMCI/IT, SE&I, HWG, and SWG	Mr. Al Cruz
	MCHS Roadmap	Mr. David Nguyen



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# Agenda (Continued)



MCHS Program Status Cont'd	Barbara Sullivan
MCHS Logistics	Ms. Cheryl Dimaio
MCHS Contracts	
1130 - 1230 Lunch	
1230 – 1315 MCHS Sub-Working Group	Mr. David Nguyen
VME	Mr. David Nguyen
Ruggedized Laptop WG	CW02 Alan Brown
MCHS Waiver Process/	MSgt Doug Trathowen
MCHS Policy	
1315 - 1330 Break	
1330 - 1630 NMCI	Major Hom



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# Agenda (Continued)



## Day Two:

0830 – 1630 Opportunity for members to address their technical and logistical requirements to the HWG. **Limit briefs to 20 minutes.**

0830 – 0900 SE&I and Interoperability Working Group (IWG)

0900 – 0930 PM OC

0930 – 0950 PM INTEL

0950 – 1000 BREAK

1000 – 1020 PM AD

1020 – 1040 PM COMM

1040 – 1100 MCTSSA

1100 – 1120 MCWL



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# Agenda (Continued)

## Program Feedback Cont'd

1120 – 1140 LAV

1140 – 1240 LUNCH

1240 – 1300 MCCDC

1300 – 1320 PM IS and Software Working Group (SWG)

1320 – 1340 AAV

1340 – 1400 PM CLAWS

1400 – 1410 BREAK

1410 – 1430 CSLE/DISTANCE LEARNING

1430 – 1450 CSLEMAR/NBC

1450 – 1510 MARCORLOGBASES

1510 – 1530 AAV

1530 – 1550 PSE



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# Agenda (Continued)



1550 – 1700 Questions, Review of Action Items and Closing Remarks

Action Items

Mr. David Nguyen

Questions

Mr. David Nguyen

Closing Remarks

LtCol Ochs



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# Opening Remarks

Mr. Rich Glover



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# Conference Objectives



- Establish HWG roles and responsibilities under the IWG process
- Provide MCHS background and program status to new members
- Maximize and consolidate computer hardware evaluations
- Establish a PM Partnership with respect to common hardware
- Identify new MCHS requirements/action items
- Provide an overview of NMCI and its impact upon MCHS



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# Program Manager Navy Marine Corps Intranet/ Information Technology Infrastructure (PM NMCI/IT)

## Mission

*To support the Marine Corps as the single point of contact for central management, transition and execution of the Navy Marine Corps Intranet services contract and to continue as the single point of contact for the central management of Information Technology Infrastructure.*



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# Organization of PM NCMI/IT

Mr. Rich Glover



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# Program Manager

## Navy Marine Corps Intranet/Information Technology Infrastructure (PM NMCI/IT)

### Business Operations Team

**Mission:** Act as the internal interface within MARCORSYSCOM for all general administrative support, budget planning and execution, and operational issues for the program management office. Serves as the external interface with the NMCI contractor for Integrated Logistics Support, to include facilities related issues.

### Contracts Team Mission:

Provide administrative contracting officer support for the NMCI services contract and procuring contracting officer support for NMCI Common Computer Resources and the MCHS program.

### PM NMCI/IT

Mr Don Walsh

### NMCI Liaison Officer

Maj Richard Hoffman

### Business Operations Team/DPM

LtCol Matthew Ochs

**Admin Team**  
Vacant

**Operations Team**  
Ms Sue Grunauer

**Budget Team**  
Vacant

**Logistics Team**  
Maj Jeff Lee, APML

### Contracts Team

Mr Dave Berry, APMC

**NMCI Administrative Contracting Officer**  
Mr Dave Berry (Acting)

**NMCI CCR/Embarkables/MCHS Hardware**

Ms. Harriett Burton, PCO

### Information Technology Team/DPM

Mr Rich Glover, APM TN

**Transition Team/ Customer Advocate**  
Maj Hom (Acting)

**NMCI Technical Services**  
Mr Al Cruz (Acting), APM CCR

**Base Telecommunications**  
Mr Buddy Rodgers

**Common Messaging**  
Maj Chris Michelsen, DMS PO

**NMCI Common Computer Resources**  
Mr Al Cruz (Acting) APM CCR [MCHS Modernization]

**NMCI Information Assurance Coordinator**  
Vacant

**Information Technology Team Mission:** Provide information technology services in the areas of the NMCI services contact, Common Computer Resources, Base Telecommunications, and Common Messaging.



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# MCHS BACKGROUND

**Mr. Al Cruz**



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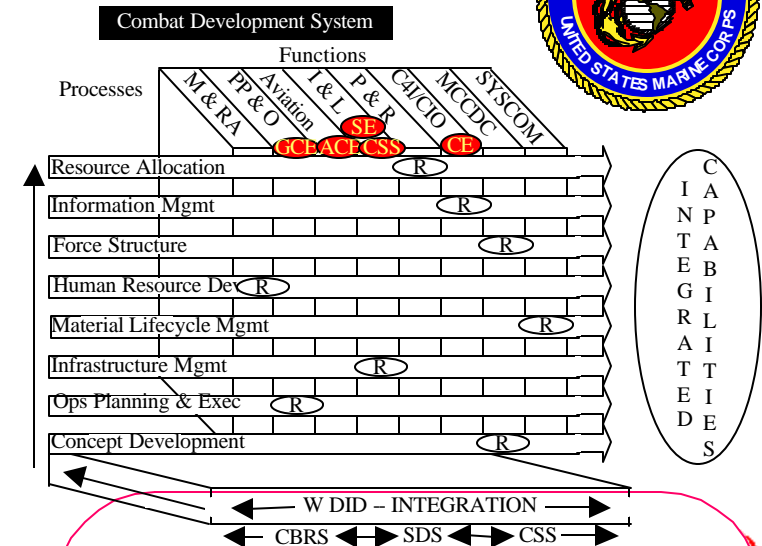
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# Symptoms of the Current Processes



## From an Operational Perspective

- Each support function is developed independently
- Functional Redundancy
- Incompatible computing platforms
- Multiple Operating Systems
- Increasingly expensive



- Separate POMing for related programs
- Fosters inappropriate competition
- Too many small programs
- Interoperability is major problem
- Training/manning issues

## From a Combat Development System Perspective



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# Redundancy in Marine Corps Software



	Land Opns Mgt	Maritime Opns	Air Opns	Airspace Mgmt	Fire Support	Intel Prod / Disem	Spectrum
	○	○	○	○	○	○	○
<b>Imagery</b>	○	○	○	○	○	○	
<b>Track Mgt</b>	○	○	○	○	○	○	
<b>PLI</b>	○	○	○	○	○	○	
<b>Message Processing</b>	○	○	○	○	○	○	
<b>TADIL Mgt</b>			○	○			
<b>Comm Processing</b>	○	○	○	○	○	○	
<b>Correlation</b>	○	○	○	○	○	○	
<b>Security Shell</b>	○	○	○	○	○	○	○
<b>System Admin</b>	○	○	○	○	○	○	○
<b>Application Unique</b>	In 1998, there were approximately 1.48 million total source lines of application unique code out of 4.34 million SLOC within the legacy source code repository supporting the command information system architecture within these mission areas.						



65% of the Software developed across our systems does the same thing!

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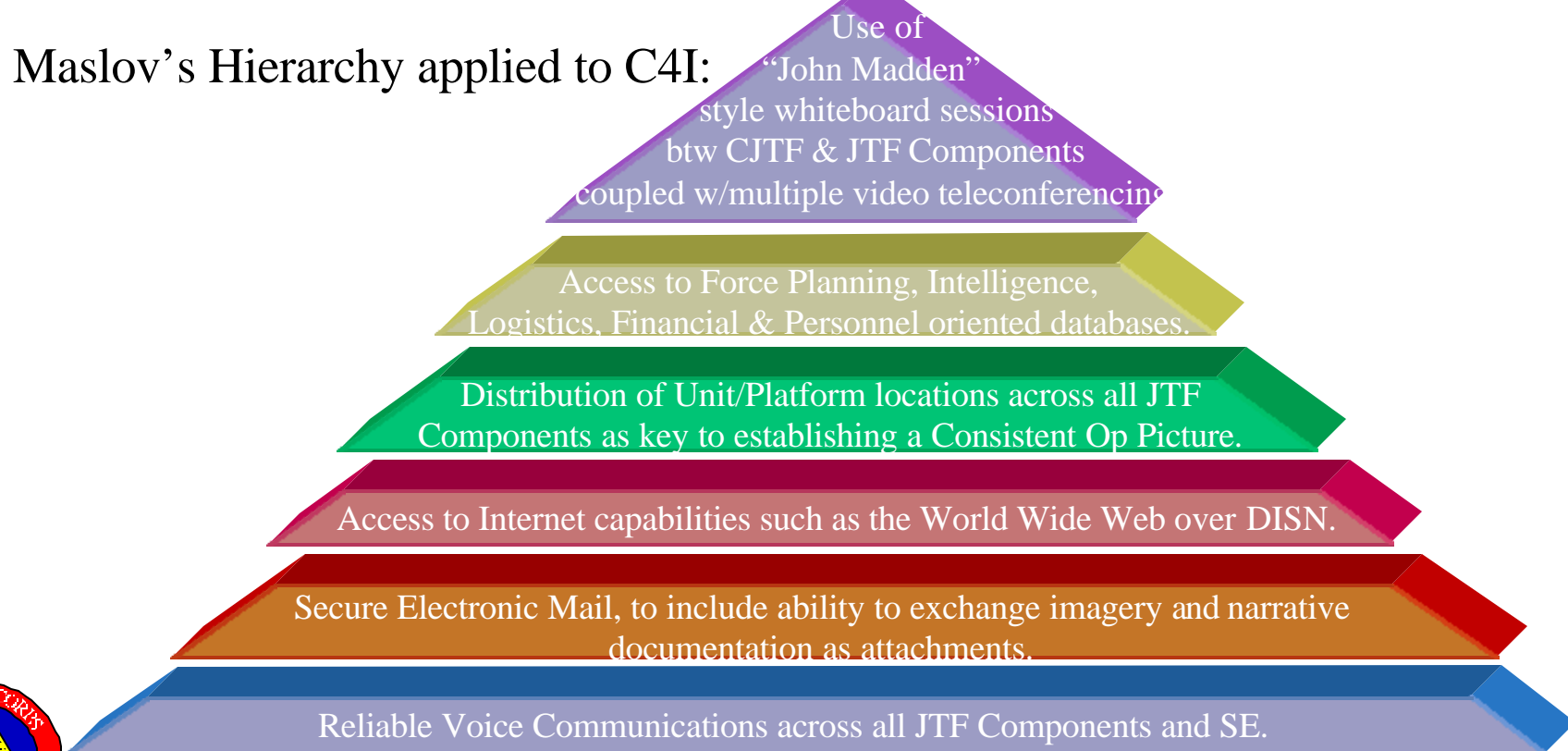
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# Hierarchy of Need Applied to Capability Sets



*Past deployments and MCWL experiments have highlighted the need to focus command attention on minimum essential Command and Control capabilities which support critical planning, deciding, and execution actions.*

Maslov's Hierarchy applied to C4I:



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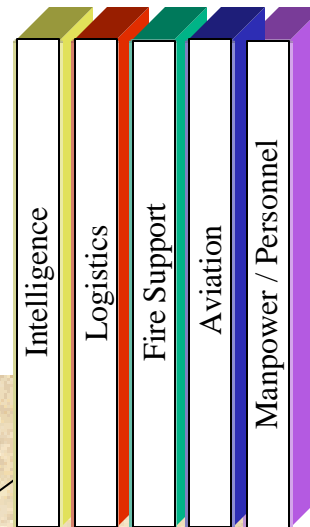
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# A Common Information Infrastructure

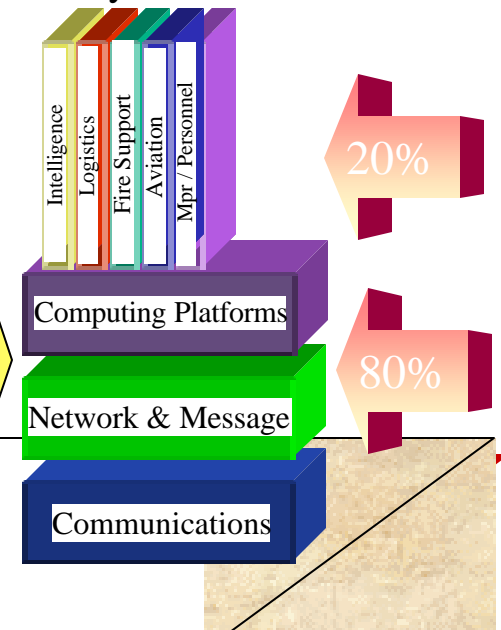


- Recommend defining Requirements, Resourcing and Acquisition Initiatives under a Layered Architectural Model
- Recommend predominance of resources be placed in infrastructure layers
- Improves number of independent programmatic initiatives
- Simplifies training, maintenance and supportability
- More than just common hardware!

Independent Mission Stovepipes



Layered Architecture



*This means changing our viewpoint:  
From --ensuring that each program  
can be executed autonomously...*

*To -- ensuring that each program fits within  
the framework of the architecture.*



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The diagram illustrates a network topology. At the top center, a large blue curved arrow points from the right towards the left. Below this, a central server (tower unit with monitor and keyboard) is enclosed in a black circle. This server is connected by thick black lines to a ring of six workstations and laptops. The workstations are arranged in a circle around the server, with two desktop computers at the top and four laptops at the bottom. A thick black curved arrow at the bottom of the ring indicates a clockwise flow or connection between the devices. In the top right corner, the United States Marine Corps seal is visible. On the left side, there is a blue-bordered box containing the text 'ed' and 'a'.

Critical Principle: A joint, standards based Information Technology Infrastructure (backbone) as the mandated foundation for Required Capabilities:

- Template for determining AOs
- Framework for consolidating ILS
- Design to environment for application developers

{
   
 InfRegt CP (8)
   
 InfBn CP (27)
   
 ArtyRegt CP (3)
   
 ArtyBN CP (12)
   
 CSSOC (4)

[illegible]

# Alignment of Operational Requirements



## Recommended Approach:

Infrastructure ORDs:

Mission Specific ORDs:

Annexes used to define elements  
of Required Capability sets

MAGTF C4I

- Global Command and Control System
- Global Combat Support System
- Defense Messaging System
- Defense Information Systems Network

- MAGTF Command Element
- Aviation Combat Element
- Ground combat Element
- Combat Service Support Element & Supporting Establishment

## Terms of Reference:

Operational Requirements Document

ORD Annex

Acquisition Program

Budget Line (PMC) or Project (RDT&E)

SubBudget Line (PMC)

SubProject Line (RDT&E)



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# A Marine Corps Information Infrastructure



## Global Command and Control System

- ❖ GCCS File/Application Servers
- ❖ GCCS Client Workstations
- ❖ GCCS Input/Output Peripherals
- ❖ GCCS Core Software
- ❖ Registered GCCS Application Segments
- ❖ GCCS On-Site Technical Support

## Global Combat Support System

- ❖ Registered GCSS Application Segments
- ❖ DISA Provided Mainframe Processing

## Defense Messaging System

- ❖ DMS & Office Automation Products

## Components of the Infrastructure

### include:

- Corps-wide computer assets - both tactical and administrative
- All Shrinkwrap Software Licenses
- Joint software one sanctioned by the Joint Staff
- Supports all MC users with; electronic mail and messaging, office automation, intranet access and groupware
- Supports deployed users with common tactical picture, joint planning tools -- on SAME platforms used in garrison.

### Of Note:

- 'On-Site' Contractor provided systems engineering support as key element of infrastructure



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# A Marine Corps Information Infrastructure (cont)



## Defense Information Systems Network

- ❖ DISN Communication Servers w/NOS
- ❖ Network Mgt and Monitoring Products
- ❖ Base Telecommunications Infrastructure
- ❖ Tactical Multichannel Radio Systems
- ❖ Tactical Aerial Radio Retransmission Systems
- ❖ Tactical Single Channel Radio Systems
- ❖ Tactical Cable Systems
- ❖ Satellite Communications
- ❖ Tactical Switching Systems
- ❖ Tactical Terminal Equipment
- ❖ Tactical Combat ID and Position Location
- ❖ Tactical Special Purpose Communications
- ❖ Tactical Control Systems
- ❖ DISN Communication Security

## Components of the Infrastructure include:

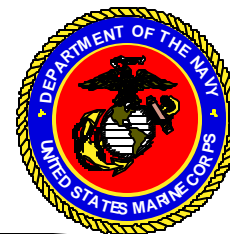
- The extension of the DISN backbone to support MC deployed and garrison communication requirements
- Shared communication assets with capacity adequate to support all NSS and AIS information transfer needs, to include voice, data, video and imagery.
- Must accommodate distinctions between UNCLAS and Classified media
- All Information Security Assets



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# Unique Functional C4I Requirements



## MAGTF Command Element

- ❖ MAGTF Command Element C2
- ❖ C2 Planning and Admin Support Systems
- ❖ Intelligence Collection, Proc, & Dissemination
- ❖ Reconnaissance & Surveillance
- ❖ Signal Intelligence
- ❖ Staff Training Systems

## Aviation Combat Element

- ❖ Marine Common Air C2 System
- ❖ Air Defense Systems
- ❖ Aviation Radar & Sensors

## Ground Combat Element

- ❖ Division, Regiment, and Battalion C2
- ❖ Command & Control of Tactical Maneuver
- ❖ Command & Control of Fire Support

## Components of these Annexes include:

- Unit Operations Center level systems engineering and integration actions; leveraging IT Infrastructure components and Ancillary Equipment program (vehicles, shelters, power, etc.)
- Unique Sensor requirements
- Sensor to Shooter 'real time' Force Control (TADILS) and Weapons Control (CEC) and requirements
- Limited Marine Corps unique application software in these Functional Areas



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# Unique Functional C4I Requirements (cont)



## Combat Service Support Element & Supporting Establishment

- ❖ Marine Combat Service Support C2
- ❖ MAGTF CSS Planning and Execution
- ❖ Manpower and Personnel
- ❖ MAGTF Supply/Maintenance
- ❖ Wholesale Supply/Maintenance
- ❖ Budget and Finance
- ❖ Combat Development and Acquisition
- ❖ Mobility and Transportation
- ❖ Facilities and Base Operations
- ❖ Health Services
- ❖ Training and Training Facilities

## Components of the Infrastructure include:

- Principally requirements which can be met exclusively with marine Corps unique Application level software
- Systems engineering and integration across functional areas
- Marine Corps unique data structures.

### Of Note:

- These areas are seen as prime candidates for substantive CDP/acquisition streamlining.



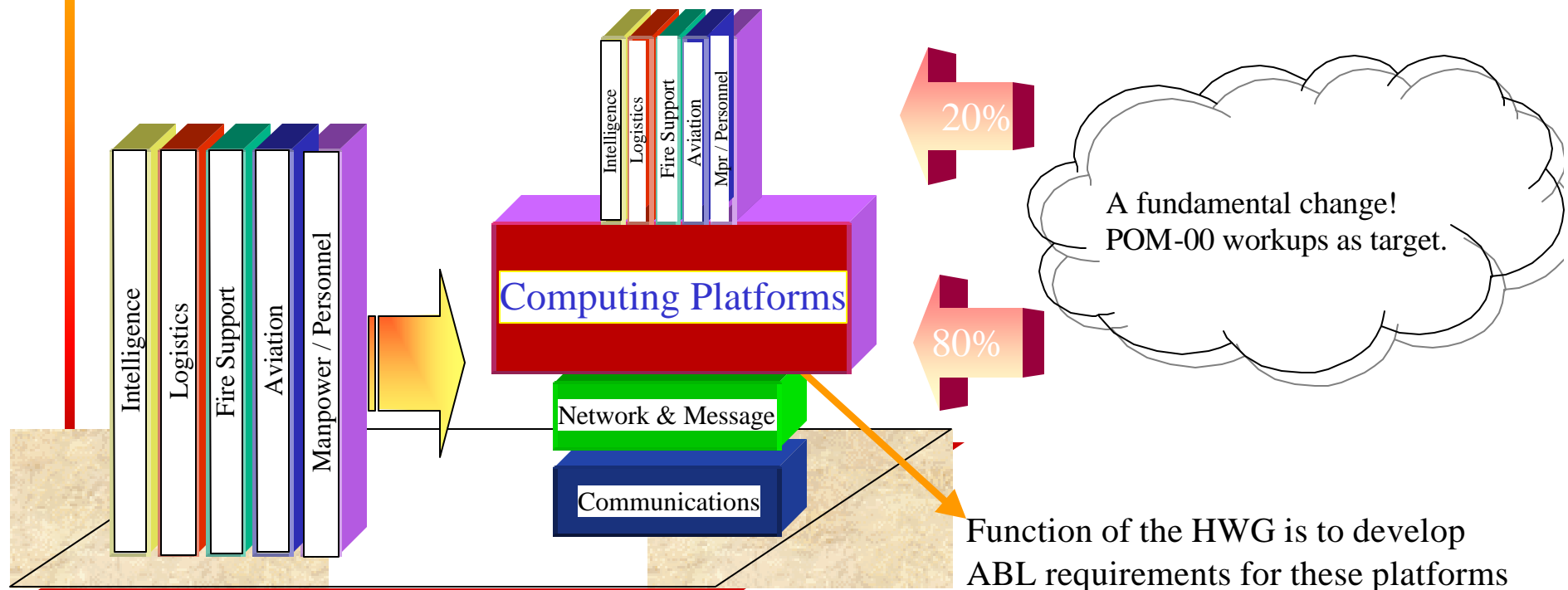
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# Background Summary

- Strong Endorsement
- Deliberate implementation strategy
- Acknowledges constrained resources
- Targets source of our primary concerns
- Acknowledges constrained resources
- Emphasis on support of war fighting



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# **Mission/Goal of HWG Voting Members and Roles**

**Mr. David Nguyen**



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# Mission/Goal

**MISSION:** The Marine Corps Common Hardware Suite (MCHS) Computer Hardware Working Group (HWG) shall develop, approve, and maintain the MCHS Allocated Baseline (ABL).

**DESCRIPTION:** The MCHS will provide common IT hardware utilizing enterprise-wide hardware standards including enterprise logistics support with a limited number of equipment configurations on standard contract vehicles.

**GOAL:** The HWG shall develop the MCHS ABL and ensure that:

1. MCHS ABL complies with the IWG Functional Baseline (FBL);
2. Hardware configuration standards comply with the DOD DII COE and IT21;
3. Hardware configurations only consist of commercial off the shelf (COTS) non-developmental items (NDI);
4. Hardware configurations meet requirements of multiple systems.



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# Members and Their Roles

- PM NMCI/IT chairs the HWG and Sub-working groups
- One vote per current member identified in the charter
- Member must attend at least 2 concurrent meetings to be eligible to vote
- New memberships will approved by the HWG members
- Assignment of alternate representative



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# Current Members

- AAAV
- AAV
- CSLEMAR/NBC
- LAV
- MARCORLOGBASES
- MCCDC
- MCTSSA
- MCWL
- PM AD
- PM CLAWS
- PM COMM
- PM INTEL
- PM IS
- PM OC
- PSE
- SE&I



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# MCHS Program Status

**Major M. D. Jones**



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# MCHS Program

**SYSTEM MISSION:** To provide standardized computers to tactical and non-tactical Marine Corps Forces while achieving the lowest cost of ownership, through:

- Centralize Marine Corps-wide procurement of workstations, file application servers
- High quality, commercial-off-the-shelf (COTS), NDI
- DOD DII COE and IT 21 compliant
- Standardized architecture with reduced information technology infrastructure costs
- Reduce number of levels of technology to three or four platforms
- Provide integrated logistics for all fielded MCHS hardware

**SYSTEM DESCRIPTION:** General purpose and high end laptops, desktops, and servers (UNIX (RISC) and Intel (CISC)) in support of tactical and functional C4I programs and the Modernization Program to support garrison IT infrastructure. MCHS extends world-wide support to all Marine Forces and Supporting Establishment.



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# MCHS Program

**Marine Corps Implementation Plan for Information Management Briefing (1996).** Based on the results of the IPT, the Marine Corps CIO recommended enterprise wide solution to create a common Marine Corps Tactical & Functional information infrastructure. IPT **recognized** that:

- The old distributed Marine Corps IT was untenable.
- Separate and inappropriately competing initiatives existed

**Recommended:**

- Focus on IT Infrastructure
- Planned workstation replacements.
- Develop umbrella infrastructure ORDs and annexes for tactical and non-tactical programs, with CCR as owner

- The lack of interoperability with other services ourselves.
- Non-standard tools from West to East coasts
- Mandate the Infrastructure as the target environment
- Marine Corps wide ILS

- Direct Investment & Maintenance Costs for 9,091 systems = \$20M. Annual maintenance exceeds new computer costs.
- 65% of existing computers could not support current C4I requirements

**Integrated Technology Logistics Assessment, C&L (1997).** Study of computer support effectiveness. Looked at the CLNC/CPNC area.

**MCCDC TO/TE Analysis (1999).** Analysis of organizations and their functional requirements. Purpose was to develop T/E allowances for computers

- Determined IT hardware effectiveness for Marine Corps
- Confirmed the problems and supplied hard data.
- Study never officially published
- Overlap of Tactical and Functional not solved
- Initial TE allowance, 69,050 growing to 84,550 and continues to grow.

- Current MCHS funding profile does not meet the five year refresh.
- MCCDC study identified High/Med/Low capabilities. Current GP computers meet all MCCDC requirements



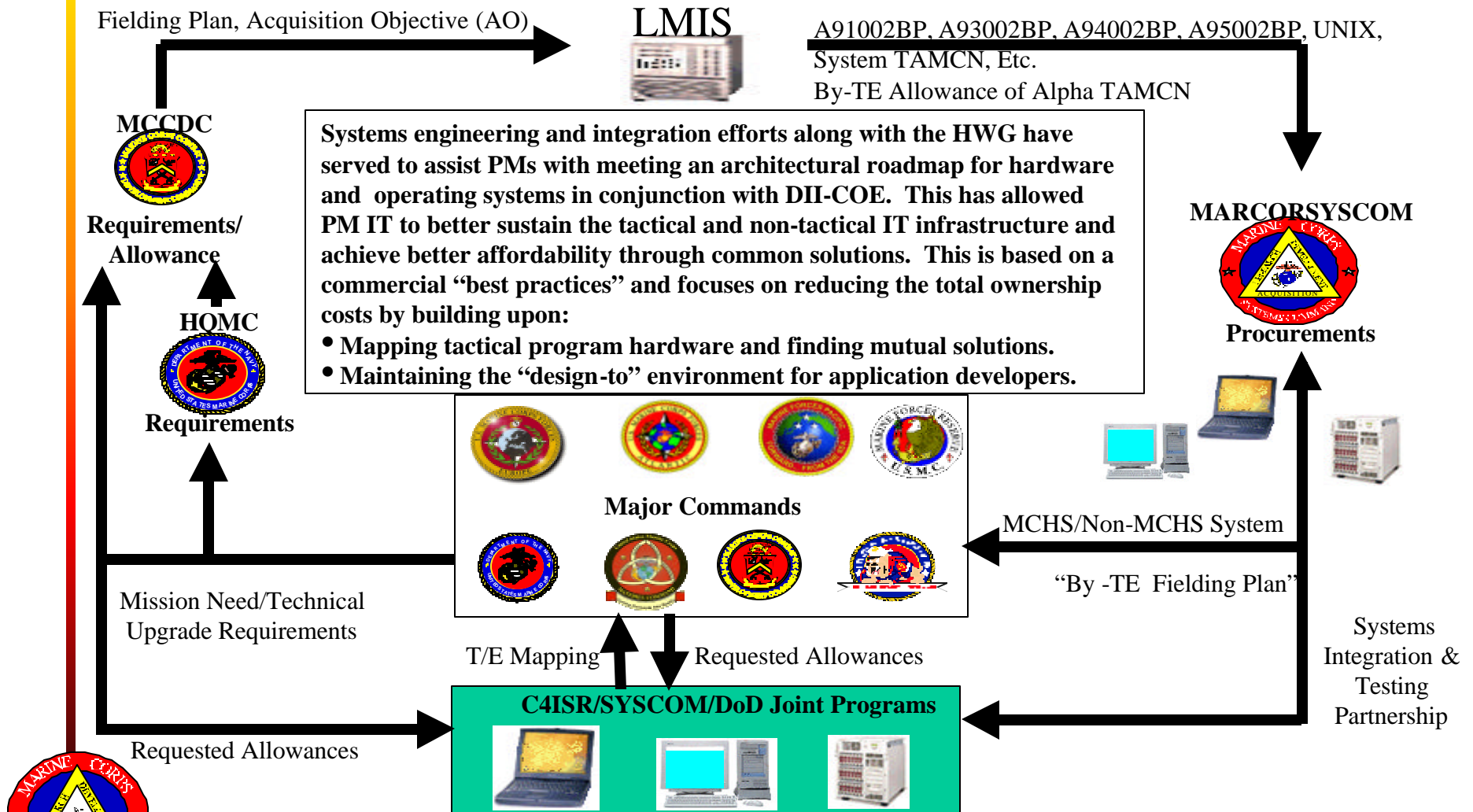
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# Concept of Employment

## (Tactical/Function Programs)



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# Concept of Employment (Modernization)



Fielding Plan, "Fair Share Distribution"

TO/TE Study, SME Conference

LMIS



A91002BP, A93002BP, A94002BP, A95002BP

By-TE Allowance of Alpha TAMCN

MCCDC



Allowance

HOMC



Requirements

New Requirements

Requested Allowances

Enterprise approach to manage and sustain the IT infrastructure on an enterprise basis. This is based on a commercial "best practices" focuses on reducing the total ownership costs by building upon:

- AAO based on functional manager approved Marine Corps T/E allowances and all other program requirements.
- A "design-to" environment for application developers.
- Standard integrated logistics support and Asset Management.

Marine Forces



Major Commands



C4ISR Programs



MARCORSSCOM



Procurements



MCHS Systems

"Fair Share" By-TE Fielding Plan

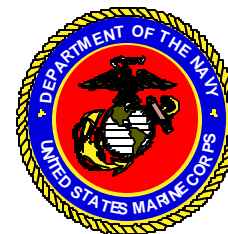
MCHS Systems

By-TE Fielding Plans

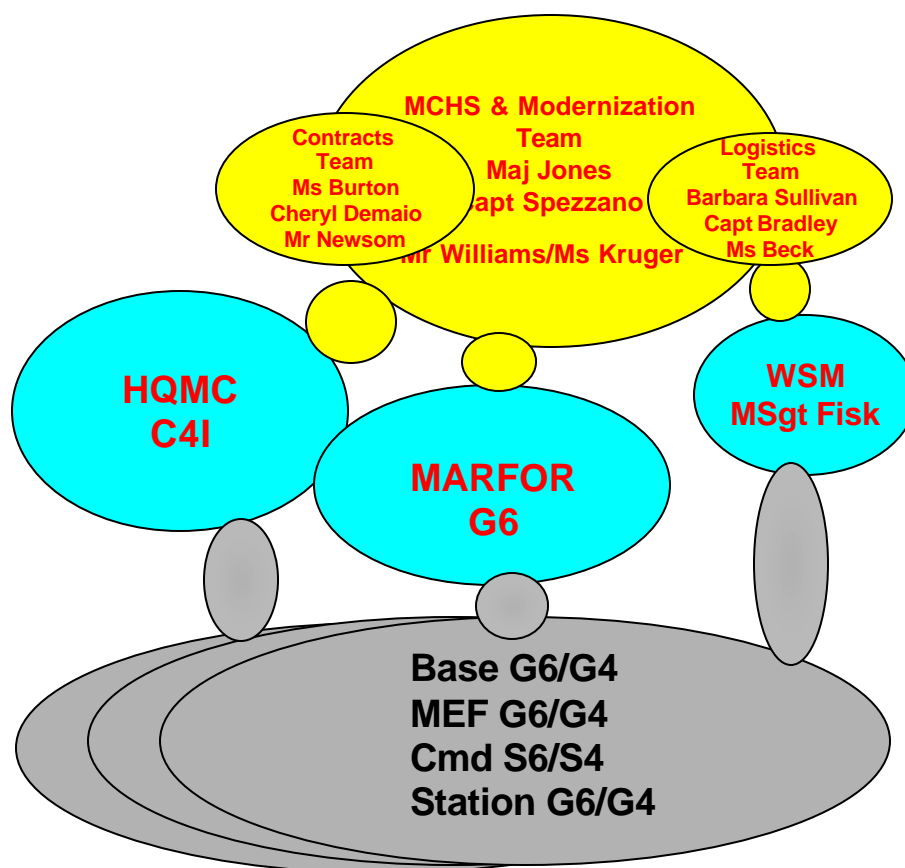


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# MCHS ORGANIZATION



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# MCHS Budget & Funding Issues

**Major M. D. Jones**



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# CURRENT BUDGET ISSUES

**TACTICAL PROGRAM DEFICIENCIES.** Several programs have upgraded their system architectures since POM 00 and that has impacted hardware configurations. The cost to support the additional capability and/or quantities impacts the CCR Line et al.

**MODERNIZATION PROCUREMENT STRATEGY.** Current HQMC C4 strategy is to acquire laptops for the operational forces using remaining FY01 modernization funds. The cost of buying laptops versus desktops 2.5 to 1. This could diminish the impact of the remaining funds towards meeting the 26,400 embarkable seat configuration baseline requirement.



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# MCHS BUDGET CONTROLS

(SEP 2000)

(\$000)	FY01	FY02	FY03	FY04	FY05	TOTALS
MCHS	\$80,700	\$21,133	\$60,541	\$60,479	\$67,804	\$290,657
<b>MODERNIZATION</b>	<b>\$12,695</b>	<b>\$0</b>	<b>\$26,400</b>	<b>\$26,400</b>	<b>\$26,400</b>	<b>\$91,895</b>

- MODERNIZATION FUNDING IS ONLY DIRECTED TOWARD MEETING THE HARDWARE REQUIREMENTS FOR THE EMBARKABLE NMCI INVENTORY



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# PR03 Funding Profile

## 3 Year Refresh

### Three-year Refresh Workstations

PMC \$000	FY01	FY02	FY03	FY04	FY05	FY06	FY07
Required	\$108,609	\$59,065	\$68,742	\$103,132	\$97,209	\$81,729	\$114,845
Current Budget	\$46,694	\$17,532	\$33,794	\$41,432	\$4,885	\$38,791	\$35,183
Delta	(\$61,915)	(\$41,533)	(\$34,948)	(\$61,700)	(\$92,324)	(\$42,938)	(\$79,662)

### Three-year Refresh Servers

PMC \$000	FY01	FY02	FY03	FY04	FY05	FY06	FY07
Required	\$26,200	\$21,711	\$60,257	\$38,629	\$34,139	\$79,267	\$43,281
Current Budget	\$26,172	\$2,587	\$25,043	\$16,958	\$16,454	\$19,970	\$14,501
Delta	(\$28)	(\$19,124)	(\$35,214)	(\$21,671)	(\$17,685)	(\$59,297)	(\$28,780)



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# PR03 Funding Profile

## 3 Year Refresh

### Three-year Refresh Workstations

PMC \$000	FY01	FY02	FY03	FY04	FY05	FY06	FY07
Required	\$108,609	\$59,065	\$68,742	\$103,132	\$97,209	\$81,729	\$114,845
Current Budget	\$46,694	\$17,532	\$33,794	\$41,432	\$4,885	\$38,791	\$35,183
Delta	(\$61,915)	(\$41,533)	(\$34,948)	(\$61,700)	(\$92,324)	(\$42,938)	(\$79,662)

### Three-year Refresh Servers

PMC \$000	FY01	FY02	FY03	FY04	FY05	FY06	FY07
Required	\$26,200	\$21,711	\$60,257	\$38,629	\$34,139	\$79,267	\$43,281
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# PR03 Funding Profile

## 5 Year Refresh

### Five-year Refresh Workstations

PMC \$000	FY01	FY02	FY03	FY04	FY05	FY06	FY07
Required	\$77,105	\$30,891	\$39,760	\$51,949	\$52,464	\$47,590	\$48,014
Current Budget	\$48,388	\$18,416	\$35,498	\$43,521	\$51,350	\$38,646	\$36,957
Delta	(\$28,717)	(\$12,475)	(\$47,941)**	(\$8,428)	(\$1,114)	(\$8,944)	(\$11,057)

\*\* Number contains FY01 and FY02 deficiencies



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# Funding Plan Of Action

- If you are a Program Office:
  - Ensure that you have submitted a Standard Deficiency Form
  - Reconcile your fielding requirements with the gaining units
  - Talk to the MCHS Project Office
  - Exploit the potential to leverage common hardware requirements with another program
- If you are a Customer/Operator:
  - Elevate the mission need/mission impact to your major command; customer advocate; MCCDC; Joint Sponsor
  - Reconcile your mission requirements



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# Funding Plan Of Action

- If you are a Program Office:
  - Make this a POM 04 Issue
  - Keep the issue on the minds of DFM/C4/C4ISR MCSC



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# Parting Shot

**Re: Naval Message DTG 040900Z JAN 01 ZYB FM CMC  
WASHINGTON DC//PR//**

HQMC C4 and P&R suspended IT procurements to scrutinize Information Technology (IT) procurements directed to future Navy Marine Corps Intranet customers during the transition and to ensure that the Marine Corps tactical requirements for the 26,400 "Embarkable" workstations have been met prior to NMCI execution in FY02.



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# MCHS Metrics

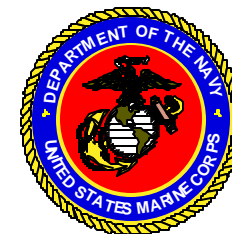
**Mr. Al Cruz**



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# MCHS Metrics



- Number of Platforms/Configurations
- Total Ownership Costs
- Customer Satisfaction/Site Visits
- Performance Tests
- Number of Waivers
- Warranty Calls



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# Health of MCHS

**Mr. Al Cruz**



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# Health of MCHS

Purpose: To evaluate the actual and planned uses of computer hardware within the MCSC C4ISR programs and report to the Deputy Commander the “health” of the Marine Common Hardware Suite.

## Objectives:

- Show the employment of MCHS and non-MCHS computers.
- Show the cost impact of non-MCHS systems.
- Show the employment of Unix hardware and Windows NT systems.
- Show the cost impact of Unix hardware.



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# Health of MCHS

## What is and is not MCHS



### MCHS

### Non-MCHS

- SUN Unix
- HP Unix
- Enterprise Server
- Departmental Server
- Multimedia Laptop
- Technical Workstation
- GP Laptop
- GP Desktop

- Voyager w/Sun Unix
- CCU DT w/ Sun Unix
- Panasonic CF27 w/ Win NT
- TAG HDIT / Win NT
- Sony VAIO w/Win NT
- Panasonic CF/71w/Win NT
- PanaSonic Toughbook 33



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


# Health of MCHS

## FY00 Average System Cost










Based on ALL FY00, Modernization procurements

### MCHS

	SUN Unix - \$28,443
	HP Unix - \$36,664
	Enterprise Server - \$11,191
	Departmental Server - \$7,257
	Multimedia Laptop - \$3,521
	Technical Workstation - \$6,087
	GP Laptop - \$2,429
	GP Desktop - \$1,476

### Non-MCHS

	Voyager Svr w/Sun UNIX - \$20,906
	CCU DT w/ Sun UNIX - \$46,000
	Panasonic CF27 w/ Win NT - \$5,425
	TAG HDIT Svr w/ Win NT - \$10,149
	Sony VAIO w/Win NT - \$3,693
	Panasonic CF 71 - \$3,800
	Panasonic Toughbook 33 -- \$31,000

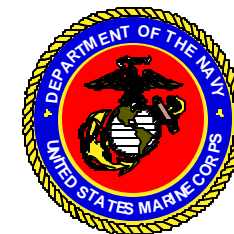


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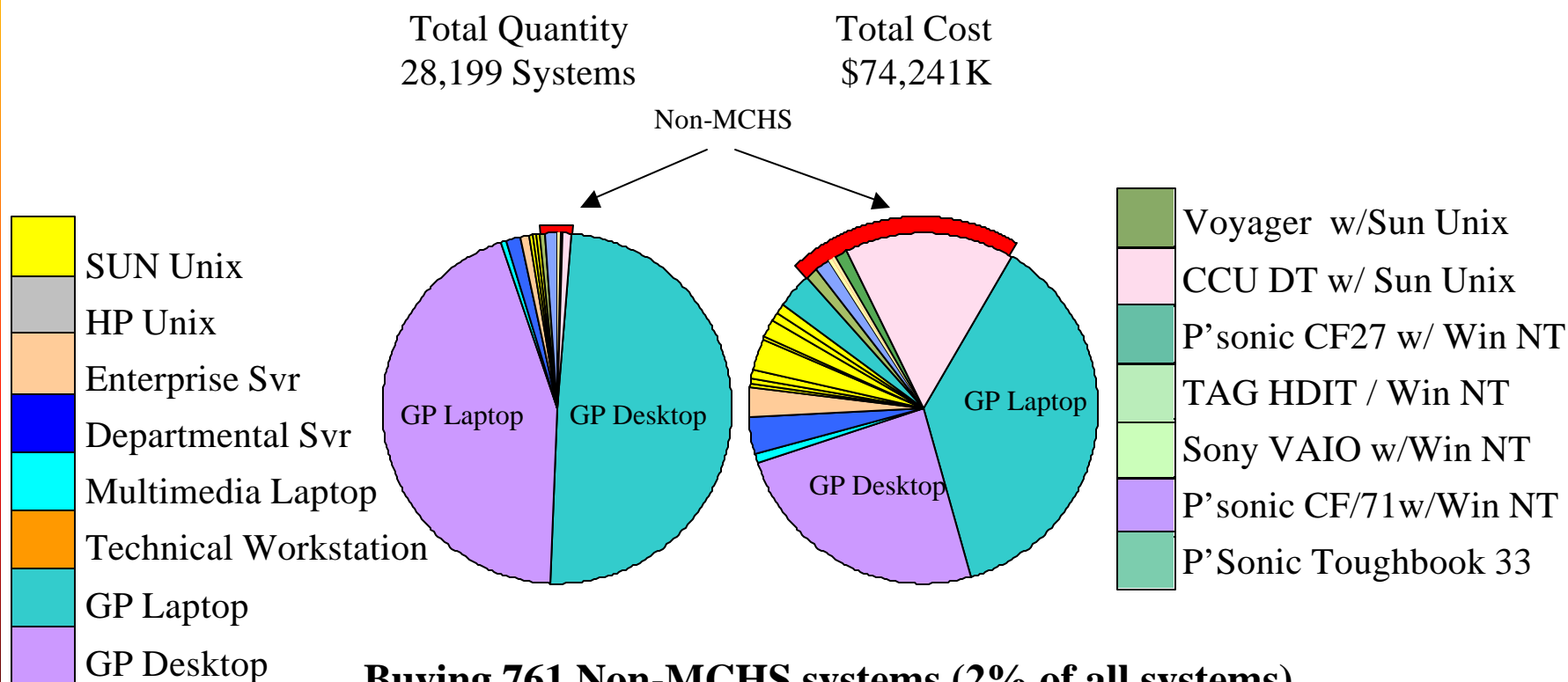
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# Health of MCHS

## Procurements



Based on all hardware procurements processed by PM IT AMP C current as of 24 August 2000



**Buying 761 Non-MCHS systems (2% of all systems)  
equals 26% (\$14,109K) of the total cost.**



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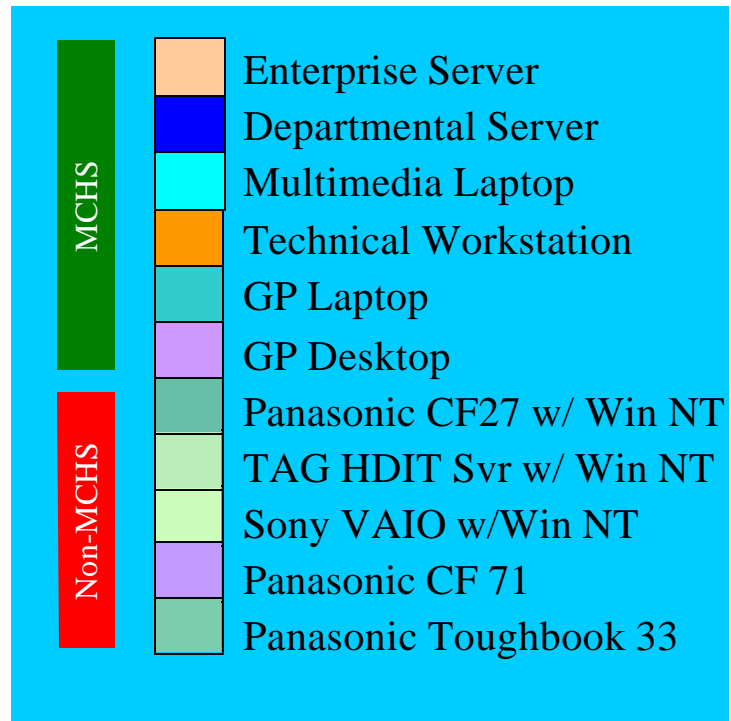
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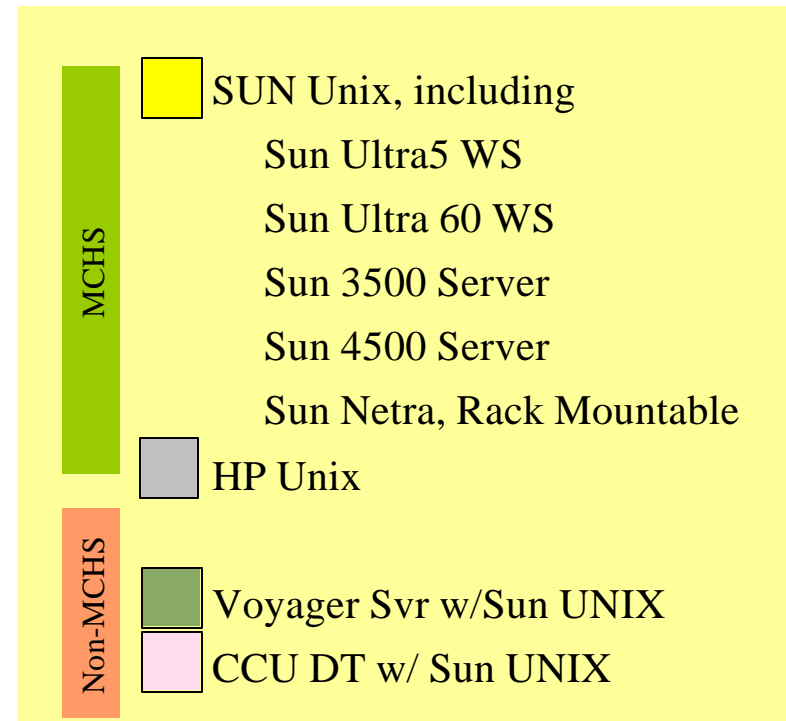
# Health of MCHS

## What is and is not UNIX Hardware

### Win NT



### Unix Hardware



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# The Health of MCHS

## What is and is not Unix Hardware?



Win NT

Unix Hardware

MCHS	Enterprise Server -- \$11,191	MCHS
	Departmental Server -- \$7,257	
	Multimedia Laptop -- \$3,521	
	Technical Workstation -- \$6,087	
	GP Laptop -- \$2,429	
	GP Desktop -- \$1,476	
	Panasonic CF27 w/ Win NT -- \$5,425	
	TAG HDIT Svr w/ Win NT -- \$10,149	
	Sony VAIO w/Win NT -- \$3,693	
	Panasonic CF 71 -- \$3,800	
Non-MCHS	Panasonic Toughbook 33 -- \$31,000	Non-MCHS
	SUN Unix, including	
	Sun Ultra5 WS -- \$17,737	
	Sun Ultra 60 WS -- \$22,846	
	Sun 3500 Server -- \$133,454	
	Sun 4500 Server -- \$181,000	
	Sun Netra, Rack Mountable -- \$26,741	
	HP Unix -- \$36,664	
	Voyager Svr w/Sun UNIX -- \$20,906	
	CCU DT w/ Sun UNIX -- \$46,000	



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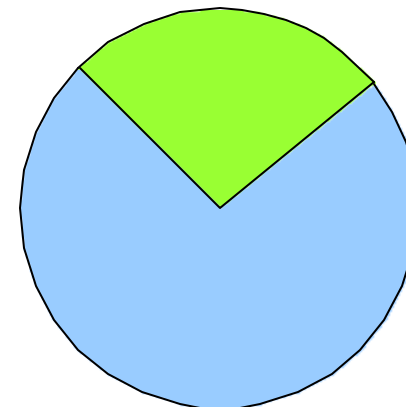
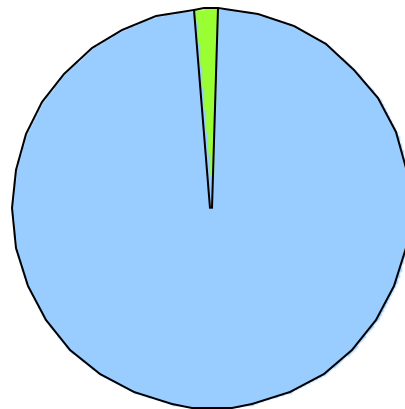
Slides and additional information available at the MCHS Website : [HTTP://www.buyersguide.marcomsyscom.USMC.mil](http://www.buyersguide.marcomsyscom.USMC.mil)



# The Cost of Unix Hardware versus Windows C4ISR

Total Quantity -- 27,626 Systems.  
514 are Unix hardware.

Total Cost  
\$71,856K



**Buying 514 Unix systems (2% of the FY00 quantity)  
used 27% (\$19,135K) of our budget.**

Legend:

Windows

Unix Hardware

Based on the actual procurements and obligation of  
C4ISR workstation and server funds.



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# MCHS R&D

**Mr. Al Cruz**



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# Portable Computer



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# MCHS R&D

## Projected Plan for FY01

- Integrate DMS with MCHS
- Application Server Consolidation/Centralization
- Transition of GFE Workstations to NMCI
- VME Hardware Test of 12 Selected Systems
- Flat Panel Evaluation
- Handheld Device and Subnotebooks Evaluation\*
- Foot-mobile Display Evaluation\*
- MCHS Unix Laptop Evaluation\*

We are soliciting additional R&D candidates

\* Not Funded



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# MCHS R&D

## Proposed Objectives

- Consolidate MCHS related R&D efforts
- Eliminate redundant evaluations through overarching supervision
- Maximize scarce resources
- Reduce Non-MCHS engineered solutions



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# Relationship Among NMCI/IT, SE&I, HWG, and SWG

**Mr. Al Cruz**



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# Working Group Relationships

- Synchronize MCHS fielding with MIP Implementation
- Operating system /applications, HW/SW impacts
  - Newer HW not supporting legacy OS
  - Newer applications not supported by existing infrastructure
- Establish process to promote information exchange
- Management of hardware and software implementations
- Validation of Non-MCHS waivers
- Timing of the PM OC fielding plan



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# MCHS Roadmap

**Mr. David Nguyen**



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# MCHS Roadmap

## Common Platform



MCHS Goal - One-step behind leading edge technology.

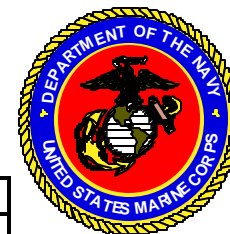
- Track technology.
- Meet with vendors to review product roadmaps.
- Determine system configurations.
- Update system configurations accordingly.
- Hardware Working Group.
- Policy.
- Maintain Web Page.



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# FY01 BASELINE



SYSTEMS	CLASS	CISC CHARACTERISTICS	RISC CHARACTERISTICS
SERVERS	<b>Enterprise</b>	<b>Min 2x 700 MHz Pentium III Xeon</b>	Minimum 2X 400 MHz UltraSparc II modules
		/512 KB L2 Cache 4-Way Simultaneous	w/8MB external cache and 1 GB RAM on a CPU
		Multi-Processing 1GB RAM Expandable to	/Memory board, 5 expansion slots, PCI I/O board
		6 GB RAM 3-18.2 GB HDD/ <b>CD-RW</b>	Tower enclosure. 2X 300 Watts AC Power
	<b>Departmental</b>	/Floppy Drive Supports RAID 0,1,3 & 5	Cooling module.
		<b>Min 2x 933 MHz Pentium III Xeon /256</b>	Minimum 2X 300 MHz UltraSparc II modules w/
		KB L2 Dual Symmetric Multi-Processing	2MB external cache. Minimum 512 MB RAM.
		512 MB RAM Expandable to <b>4 GB RAM</b>	Minimum 2X 18.2 GB 10,000 RPM Internal Hard
	<b>Entry-level</b> (Portable Server - 3U or less)	3-18.2 GB HDD/ <b>CD-RW</b> /Floppy Drive	Drive. 4mm DDS-3 internal tape backup. 32x
		Optional - Supports RAID 0,1,3 & 5	Int. CD-ROM drive. 1.44 MB Floppy Disk Drive.
DESKTOPS	<b>Technical Workstation</b>	<b>Min 933 MHz Pentium III</b> /256 KB L2	Minimum 300 MHz UltraSparc-II module w/2MB
		Dual Symmetric Multi-Processing	external cache. Minimum 18.2 GB UltraSCSI
		256 MB RAM Expandable to 2 GB RAM	10,000 RPM Internal. Minimum 256 MB RAM
		3-9.1 GB HDD/CD-RW/Floppy Drive	4-mm DDS-3 internal tape drive. 32x internal CD
	<b>General-Purpose</b>	Supports RAID 0,1,3 & 5	ROM drive. 1.44 MB Floppy Disk Drive.
		<b>933 MHz Pentium III Xeon</b> /256 KB L2	Minimum 2x440 MHz UltraSPARC-II with 4MB
		Optional - Dual Symmetric Multi-Processing	external cache. Tower case with 4 PCI slots (1 of
		256 MB RAM Expandable to 2 GB	32/64 bit, 66 MHz, 3.3 volt and 3 of 32/64 bit, 33
	<b>General-Purpose</b>	1-18.2GB HDD/CD-RW/Floppy Drive	MHz, 5 volt). Min. 18.2 GB UltraSCSI int HD
		AGP 4X, 64-bit, 16MB VRAM	10,000 RPM. Minimum 256 MB RAM.
LAPTOPS	<b>Multimedia</b>	<b>800 MHz Pentium III</b> /256 KB L2	Minimum 440 MHz UltraSparc Ili with 2MB ext.
		Single Processor	cache. Min. 9.1 GB EIDE int HD, 7200 rpm.
		256 MB RAM Expandable to 1 GB RAM	Minimum 128 MB RAM. 1.44 MB floppy drive.
		1-10 GB HDD/ <b>CD-RW</b> /Floppy Drive	32X CD-ROM.
	<b>General-Purpose</b>	AGP 2X, 64-bit, 8MB VRAM	
		<b>700 MHz Mobile Pentium III</b>	
		128 MB RAM Expandable to 256 MB RAM	
		1-10 GB HDD/ <b>CD-RW</b> /Floppy Drive	
	<b>General-Purpose</b>	2 type II or 1 type III PCM/CIA slots	
		56 Kbps Modem	
		64-bit AGP, 8 MB VRAM	
		14" TFT, 1024 X 768 Resolution Screen	
	<b>General-Purpose</b>	<b>700 MHz Mobile Pentium III</b>	
		128 MB RAM Expandable to 192 MB RAM	
		1-10 GB HDD/ <b>CD-RW</b> /Floppy Drive	
		2 type II or 1 type III PCM/CIA slots	
	<b>General-Purpose</b>	56 Kbps Modem	
		64-bit AGP, 4MB VRAM	
		13" TFT, 800 X600 Resolution Screen	



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# MCHS Logistics

**Barbara Sullivan**



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# LOGISTICS STATUS



- ACCOMPLISHMENTS

- Standardized Logistics-

- Worldwide support
    - Warranty length = life cycle
    - MB/CI for Workstations
    - On-Call labor for Servers
    - Parts only for Unix
    - Label
    - Hotline/Web/Help Desk
    - Restore CD
    - Diagnostics Software
    - Vendor Call Log reports
    - Options (length and service)

- ACCOMPLISHMENTS  
(Cont.)

- Delivery Tracking
  - ULSS
  - Fielding Conference



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# MARINE CORPS HARDWARE SUITE

## CALL LOG SUMMARY ASSET MANAGEMENT SYSTEM

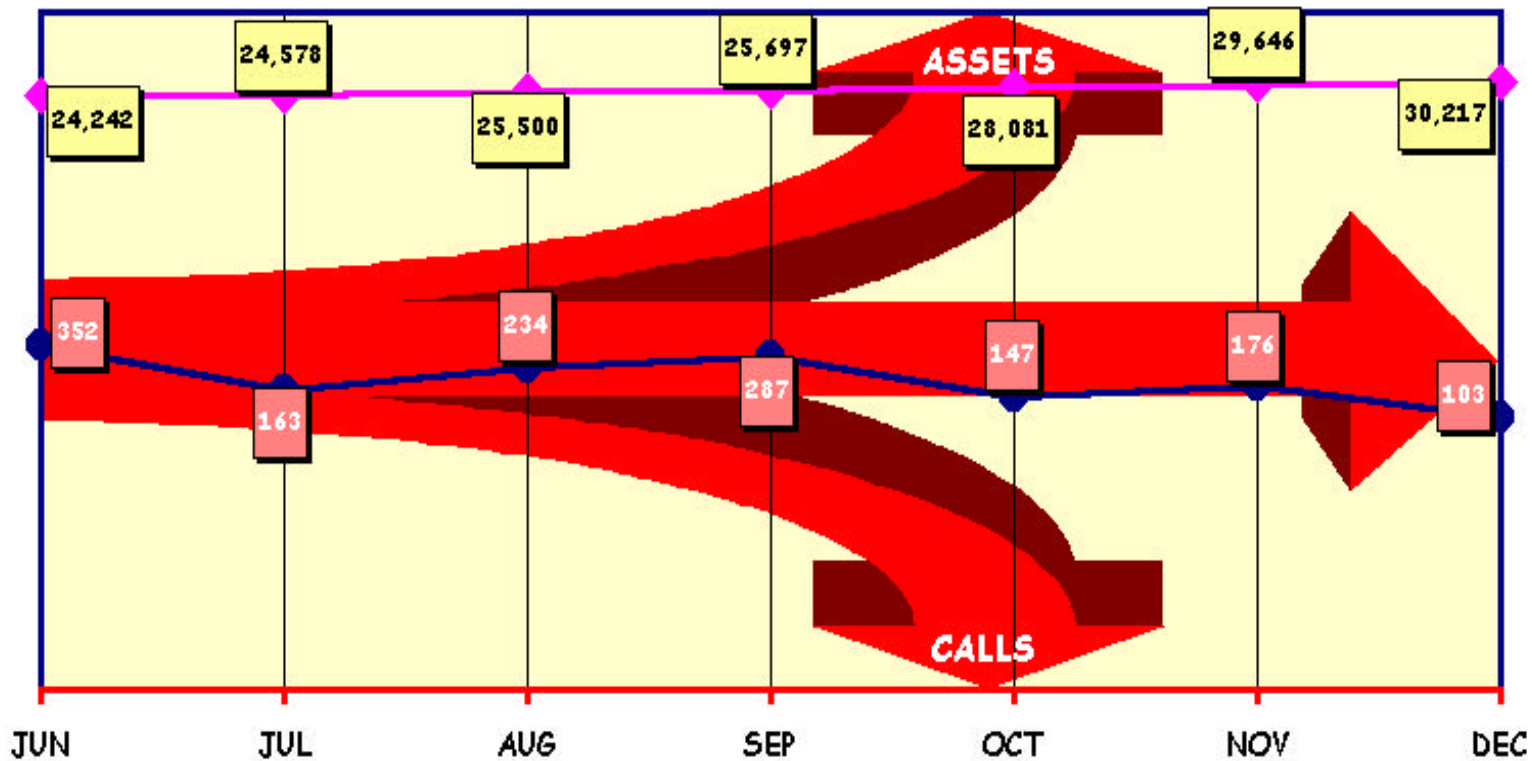


Summary Period: December-00

Contract Number	Vendor Name	Date Reported	RPA Systems in AMS Inventory	3006	3007	3008	3009	3010	3011	3012	3013	3014	3015	3016	3017	3018	3019	3020	3021	3022	3023	3024	3025	3026	3027	3028	3029	3030	3031	3032	3033	3034	3035	3036	3037	3038	3039	3040	3041	3042	3043	3044	3045	3046	3047	3048	3049	3050	3051	3052	3053	3054	3055	3056	3057	3058	3059	3060	3061	3062	3063	3064	3065	3066	3067	3068	3069	3070	3071	3072	3073	3074	3075	3076	3077	3078	3079	3080	3081	3082	3083	3084	3085	3086	3087	3088	3089	3090	3091	3092	3093	3094	3095	3096	3097	3098	3099	3100	3101	3102	3103	3104	3105	3106	3107	3108	3109	3110	3111	3112	3113	3114	3115	3116	3117	3118	3119	3120	3121	3122	3123	3124	3125	3126	3127	3128	3129	3130	3131	3132	3133	3134	3135	3136	3137	3138	3139	3140	3141	3142	3143	3144	3145	3146	3147	3148	3149	3150	3151	3152	3153	3154	3155	3156	3157	3158	3159	3160	3161	3162	3163	3164	3165	3166	3167	3168	3169	3170	3171	3172	3173	3174	3175	3176	3177	3178	3179	3180	3181	3182	3183	3184	3185	3186	3187	3188	3189	3190	3191	3192	3193	3194	3195	3196	3197	3198	3199	3200	3201	3202	3203	3204	3205	3206	3207	3208	3209	3210	3211	3212	3213	3214	3215	3216	3217	3218	3219	3220	3221	3222	3223	3224	3225	3226	3227	3228	3229	3230	3231	3232	3233	3234	3235	3236	3237	3238	3239	3240	3241	3242	3243	3244	3245	3246	3247	3248	3249	3250	3251	3252	3253	3254	3255	3256	3257	3258	3259	3260	3261	3262	3263	3264	3265	3266	3267	3268	3269	3270	3271	3272	3273	3274	3275	3276	3277	3278	3279	3280	3281	3282	3283	3284	3285	3286	3287	3288	3289	3290	3291	3292	3293	3294	3295	3296	3297	3298	3299	3300	3301	3302	3303	3304	3305	3306	3307	3308	3309	3310	3311	3312	3313	3314	3315	3316	3317	3318	3319	3320	3321	3322	3323	3324	3325	3326	3327	3328	3329	3330	3331	3332	3333	3334	3335	3336	3337	3338	3339	3340	3341	3342	3343	3344	3345	3346	3347	3348	3349	3350	3351	3352	3353	3354	3355	3356	3357	3358	3359	3360	3361	3362	3363	3364	3365	3366	3367	3368	3369	3370	3371	3372	3373	3374	3375	3376	3377	3378	3379	3380	3381	3382	3383	3384	3385	3386	3387	3388	3389	3390	3391	3392	3393	3394	3395	3396	3397	3398	3399	3400	3401	3402	3403	3404	3405	3406	3407	3408	3409	3410	3411	3412	3413	3414	3415	3416	3417	3418	3419	3420	3421	3422	3423	3424	3425	3426	3427	3428	3429	3430	3431	3432	3433	3434	3435	3436	3437	3438	3439	3440	3441	3442	3443	3444	3445	3446	3447	3448	3449	3450	3451	3452	3453	3454	3455	3456	3457	3458	3459	3460	3461	3462	3463	3464	3465	3466	3467	3468	3469	3470	3471	3472	3473	3474	3475	3476	3477	3478	3479	3480	3481	3482	3483	3484	3485	3486	3487	3488	3489	3490	3491	3492	3493	3494	3495	3496	3497	3498	3499	3500	3501	3502	3503	3504	3505	3506	3507	3508	3509	3510	3511	3512	3513	3514	3515	3516	3517	3518	3519	3520	3521	3522	3523	3524	3525	3526	3527	3528	3529	3530	3531	3532	3533	3534	3535	3536	3537	3538	3539	3540	3541	3542	3543	3544	3545	3546	3547	3548	3549	3550	3551	3552	3553	3554	3555	3556	3557	3558	3559	3560	3561	3562	3563	3564	3565	3566	3567	3568	3569	3570	3571	3572	3573	3574	3575	3576	3577	3578	3579	3580	3581	3582	3583	3584	3585	3586	3587	3588	3589	3590	3591	3592	3593	3594	3595	3596	3597	3598	3599	3600	3601	3602	3603	3604	3605	3606	3607	3608	3609	3610	3611	3612	3613	3614	3615	3616	3617	3618	3619	3620	3621	3622	3623	3624	3625	3626	3627	3628	3629	3630	3631	3632	3633	3634	3635	3636	3637	3638	3639	3640	3641	3642	3643	3644	3645	3646	3647	3648	3649	3650	3651	3652	3653	3654	3655	3656	3657	3658	3659	3660	3661	3662	3663	3664	3665	3666	3667	3668	3669	3670	3671	3672	3673	3674	3675	3676	3677	3678	3679	3680	3681	3682	3683	3684	3685	3686	3687	3688	3689	3690	3691	3692	3693	3694	3695	3696	3697	3698	3699	3700	3701	3702	3703	3704	3705	3706	3707	3708	3709	3710	3711	3712	3713	3714	3715	3716	3717	3718	3719	3720	3721	3722	3723	3724	3725	3726	3727	3728	3729	3730	3731	3732	3733	3734	3735	3736	3737	3738	3739	3740	3741	3742	3743	3744	3745	3746	3747	3748	3749	3750	3751	3752	3753	3754	3755	3756	3757	3758	3759	3760	3761	3762	3763	3764	3765	3766	3767	3768	3769	3770	3771	3772	3773	3774	3775	3776	3777	3778	3779	3780	3781	3782	3783	3784	3785	3786	3787	3788	3789	3790	3791	3792	3793	3794	3795	3796	3797	3798	3799	3800	3801	3802	3803	3804	3805	3806	3807	3808	3809	3810	3811	3812	3813	3814	3815	3816	3817	3818	3819	3820	3821	3822	3823	3824	3825	3826	3827	3828	3829	3830	3831	3832	3833	3834	3835	3836	3837	3838	3839	3840	3841	3842	3843	3844	3845	3846	3847	3848	3849	3850	3851	3852	3853	3854	3855	3856	3857	3858	3859	3860	3861	3862	3863	3864	3865	3866	3867	3868	3869	3870	3871	3872	3873	3874	3875	3876	3877	3878	3879	3880	3881	3882	3883	3884	3885	3886	3887	3888	3889	3890	3891	3892	3893	3894	3895	3896	3897	3898	3899	3900	3901	3902	3903	3904	3905	3906	3907	3908	3909	3910	3911	3912	3913	3914	3915	3916	3917	3918	3919	3920	3921	3922	3923	3924	3925	3926	3927	3928	3929	3930	3931	3932	3933	3934	3935	3936	3937	3938	3939	3940	3941	3942	3943	3944	3945	3946	3947	3948	3949	3950	3951	3952	3953	3954	3955	3956	3957	3958	3959	3960	3961	3962	3963	3964	3965	3966	3967	3968	3969	3970	3971	3972	3973	3974	3975	3976	3977	3978	3979	3980	3981	3982	3983	3984	3985	3986	3987	3988	3989	3990	3991	3992	3993	3994	3995	3996	3997	3998	3999	4000	4001	4002	4003	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# CALL LOG MONTHLY TOTALS

## ASSETS & CALLS

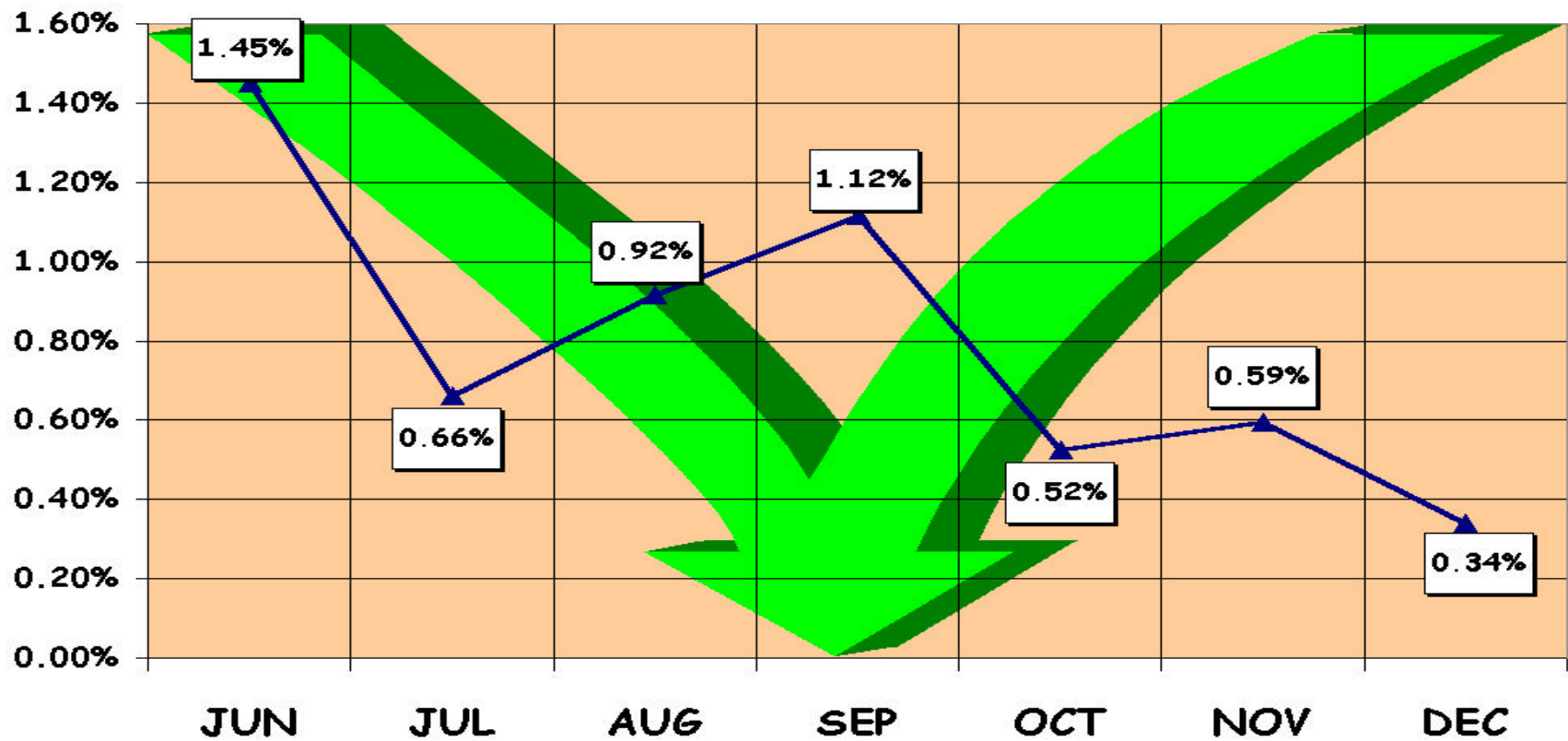


Tuesday 6 February 2001

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# CALL LOG MONTHLY TOTALS

## PERCENT OF CALLS-TO-TOTAL ASSETS



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# LOGISTICS STATUS



- CHALLENGES
  - Warranty Self-Maintenance
  - Spares



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# Procurement Checklist



- Waivered equipment
- Provide ILSO/PO phone number
- Provide copy of ULSS
- Provide support requirements
- TO/TE Mapping (GySgt Maddy/TFSD)
  - Allowances established and in LMIS
  - Reduces possibility of allowance duplication
  - Provides visibility for PM NMCI/IT to plan for funding
  - Integrators – still need final T/E destination
- Fielding message



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# MCHS Contracts

- Ms. Cheryl DiMaio
- Contracting Officer
- [DimαιοCA@mcsc.usmc.mil](mailto:DimαιοCA@mcsc.usmc.mil)
- (703) 784-0804



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# Function



- Provide acquisition support to PM NMCI/IT
- Provide centralized procurement of IT requirements for Marine Corps
  - Marine Corps Common Hardware Suite (MCHS)
    - Desktops
    - Laptops
    - Servers
  - Non-MCHS
    - Peripherals
    - Unique requirements



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# Function

- Establish and administer a number of contract vehicles used for populating the MCHS
  - Blanket Purchase Agreements (BPAs)
    - Desktops, Laptops, Servers
    - Ruggedized Laptops (in process)
- Place orders off other agency contracts
  - GSA contracts
  - Navy “Supermini” contract with Litton PRC
    - UNIX products (SUN, HP)
  - NIH
  - SEWP
- Place open market orders



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# Process Overview

- Receipt of Requirement
  - Look at available contracting vehicles
  - Compete requirement among vendors to get lowest price and/or best value
  - Prepare and execute orders
- Post Award Issues
  - Follow up on invoicing and payment by DFAS
    - Prompt certification of invoices critical
  - Contractual remedies for shipment problems
    - Negotiation of consideration for late deliveries



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# Processing Time

- MCHS
  - 63 days from receipt of complete requirement in Contracting office to customer required delivery date
    - What constitutes a complete requirement?
      - Final configuration established
      - Adequate and proper funding
      - Approved logistics requirements
      - All necessary information received (i.e., shipping addresses, POCs, etc.)



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# Processing Time - continued

- MCHS - continued
  - 63 days includes the 30 days specified in order for vendor to deliver
  - Effectively allows 33 days' processing time
    - Document preparation & review, solicitation of vendors, vendor response time, and preparation of final award documentation
  - Changes to requirements may require extended processing time
- UNIX Products
  - 93 days
  - Vendors have 60 days to deliver products



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# Focus



- Acquire products which meet user requirements
- Maximize competition
  - Results in reduction in unit price
- Meet delivery schedules
- Aggregate requirements where possible and feasible
  - Quarterly modernization buys
  - Take advantage of economic order quantities
  - Results in reduction in unit price



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# MCHS Program Status Sub-Working Group

**Mr. David Nguyen**



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# MCHS Sub-Working Group



- VERSAModule Eurocard (VME)
- Rugged Laptop



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# **VERSAModule Eurocard (VME)**

**Mr. David Nguyen**



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# VERSA Module Eurocard Working Group - A Subset of HWG



## BACKGROUND

VME technology is being fielded or proposed as a computing solution for multiple Marine Corps programs. Minimal coordination is occurring with regard to utilizing a common solution. A heterogeneous VME computing environment will lead to greater than necessary software, maintenance, and acquisition costs while complicating system interoperability.

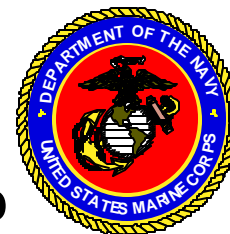
## MISSION/PURPOSE

The VMEWG is responsible to research, develop, and recommend a common VME computer system that can be used for most applications within the Marine Corps. The recommendations will include a VME chassis, Single Board Computer, digital signal processors for high performance computing requirements, input/output devices for military applications, the operating system, and all applications software needed to support the recommended VME hardware suite. VMEWG ensures open systems architecture, seamless upgradability and superior scaling.



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## VERSAModule Eurocard Working Group

### Working Group Representation

PM AAV	Advanced Amphibious Assault Vehicle
PM OC	Operations Center
PM AD	Air Defense / Fire Support

### Programs

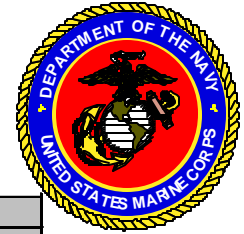
DMS	GCCS	JSLNBCRS
LAV	MCIA	MEWSS PIP
TAOM	TDN	TERPES



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# VME PROGRAM ORD ENVIRONMENT REQUIREMENTS



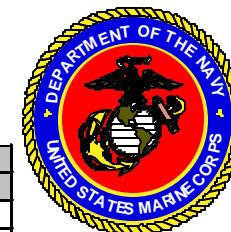
Environmental Parameter	PM AAV	PM OC			PM AD		
	AAV	UOC (COC)*	CAC2S*	CEC*	AN/TPS-59(V3)*	ADCP*	TACC*
<b>Rugged Level II</b>							
Temperature							
Storage: -62C to 125C	X						
Operation: -54C to 52C	-40C to 60C						
Humidity							
Storage: 0 to 100%, Condensing							
Operation: 0 to 100%, Non-condensing							
Altitude							
Storage: 0 to 50,000 Feet							
Operation: 0 to 50,000 Feet							
Shock (Hammer Test)							
Storage: 30-40G, 11 Msec 100G, 0.5Msec	X						
Operation: 30-40G, 11 Msec 100G, 0.5Msec	X						
Vibration							
Storage: 1.25G @ 3-50Hz, 2.22G @ 50-2,000Hz	X						
Operation: 1.25G @ 3-50Hz, 2.22G @ 50-2,000Hz	X						
Salt Fog							
Storage: 5% Salt Solution for 48 Hours	N/S						
Operation: 5% Salt Solution for 48 Hours	X						
Dust & Sand							
Storage: Air Velocity 18 M/S for 90 Minutes	N/S						
Operation: Air Velocity 18 M/S for 90 Minutes	X						
Rain							
Storage: 7 Gal/Ft <sup>2</sup> /Hr for 15 Minutes	X						
Operation: 7 Gal/Ft <sup>2</sup> /Hr for 15 Minutes	N/S						



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# VME PROGRAM ORD ENVIRONMENT REQUIREMENTS



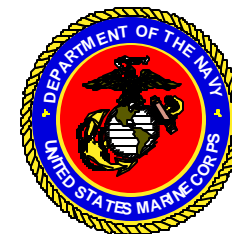
Environmental Parameter	PM AAAV	PM OC			PM AD		
	AAAV	UOC (COC)*	CAC2S*	CEC*	AN/TPS-59(V3)*	ADCP*	TACC*
<b>Rugged Level I</b>							
<b>Temperature</b>							
Storage: -54C to 71C		-32C to 50C	-32C to 50C	-40C to 68C	-54C to 71C **	-52C to 71C	-31C to 52C
Operation: -40C to 55C		-32C to 50C	-32C to 50C	-40C to 55C	-40C to 50C **	-52C to 50C	-31C to 52C
<b>Humidity</b>							
Storage: 0 to 100%, Condensing	X				99%		NS
Operation: 0 to 100%, Non-condensing	X				99%		NS
<b>Altitude</b>							
Storage: -1,000 to 45,000 Feet				-1,000FT to 40,000FT	45,000 FT	45,000 Feet	
Operation: -1,000 to 25,000 Feet				-1,000FT to 10,000FT	10,000 FT	-300 to 15,000 Feet	
<b>Shock</b>							
Storage: Bench Handling Test		W/S MIL Transport	W/S MIL Transport	W/S MIL Transport	W/S MIL Transport	W/S MIL Transport	W/S MIL Transport
Operation: Bench Handling Test		NS	W/S Air/Sea Transport	NS	NS	W/S MIL Transport	W/S MIL Transport
<b>Vibration</b>							
Storage: 1HR Test on Vibration Table, Random Frequency	10G Peak @ 15-2000-Hz	W/S MIL Transport	W/S MIL Transport	W/S MIL Transport	W/S MIL Transport	Washboard, Beligan Block, Radial Washboard	W/S MIL Transport
Operation: 1 HR Test on Vibration Table, Random Frequency	10G Peak @ 15-2000-Hz	NS	W/S Air/Sea Transport	NS	NS	Munson Road, Coarse Washboard, Beligan	W/S MIL Transport
<b>Salt Fog</b>							
Storage: 5% Salt Solution for 48-Hours		NS	NS	External Ship Storage 6 Mos	Salt Spray 120 Days	MIL-STD-810, Method 509.3	W/S Amphibious Ops
Operation: 5% salt Solution for 48 Hours		NS	NS	30 Days	Salt Spray 120 Days	MIL-STD-810, Method 509.3	W/S Amphibious Ops
<b>Dust &amp; Sand</b>							
Storage: Air Velocity 18 MS for 90 Minutes		Wind 50/60 MPH	NS	80 KTS	100 KPH	grams/meter <sup>3</sup> at 15 M/S	Dust 50 KT Winds
Operation: Air Velocity 18 MS for 90 Minutes		Wind 50/60 MPH	NS	80 KTS	50 KPH	Sand Concentration 22 grams/meter <sup>3</sup> at 15 M/S	Blowing Sand & Dust 50 KT Winds
<b>Rain (Included Under Humidity Test)</b>							
Storage: Mist		40 MPH Driving Rain	NS	NS	58 Inch/Hour	15 gal/min for 60 min	Heavy Rainfall
Operation: Mist		40 MPH Driving Rain	NS	NS	58 Inch/Hour	15 gal/min for 60 min	Heavy Rainfall



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# VME PROGRAM ORD ENVIRONMENT REQUIREMENTS



Environmental Parameter	PM AAV	PM OC			PM AD		
	AAAV	UOC (COC)*	CAC2S*	CEC*	AN/TPS-59(V3)*	ADCP*	TACC*
<b>Commercial</b>							
Temperature							
Storage: -40C to 85C							
Operation: 0C to 50C							
Humidity							
Storage: 0 to 95%, Non-condensing		X	X	X		X	
Operation: 0 to 95%, Non-condensing		X	X	X		0 to 81% at 32C	
Altitude							
Storage: 0 to 25,000 Feet	X	X	X				10,000 FT
Operation: 0 to 25,000 Feet	X	X	X				10,000 FT
Shock							
Storage: Not Specified							
Operation: Not Specified							
Vibration							
Storage: Not Specified							
Operation: Not Specified							
Salt Fog							
Storage: Not Specified							
Operation: Not Specified							
Dust & Sand							
Storage: Not Specified							
Operation: Not Specified							
Rain							
Storage: Not Specified							
Operation: Not Specified							



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# What has been done?

- Continued to refine VME Ruggedization Level Environment Categories based on Program ORD Requirements 05/00-Present
  - Commercial (Benign), Rugged Level 1 (Rugged), Rugged Level 2 (Harsh)
- Continued to work with Vendors responding to RFI and encourage additional Vendors to submit Quotes. Received responses from six vendors 09/00 - Present
  - GD, ISR, SAIC, VMIC, TRW, and Integral Marketing
  - Additional Vendors: Force Computers, IXTHOS, Lockheed Martin, Peripheral Equipment Corp, and Themis Computer



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# Where are we now?

- Finalize Technical & Logistics Baseline Architecture Requirements at upcoming VMEWG meetings
- Continue developing and staffing RFI/RFQ
  - Will there be enough vendors proposing an Integrated Solution to provide competition, or will we have to seek vendors for each component and hire an Integrator?
  - Single Vendor/Integrator or Multiple Vendors providing all components and warranties?
  - Who provides/installs/warranties other unique modules required by programs
- Finalize environment testing procedures based on MIL-STD-810F



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# Where are we going?

- Finalize Hardware and Logistics Requirements
- Commission VME/CompactPCI Business Case Analysis Study
- Develop SOW for Multiple Component Integrator
- Issue RFQ
- Conduct Hardware Testing
- Award BPA Based on GSA Schedules



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# **Ruggedized Laptop Working Group**

**CW02 Alan Brown**



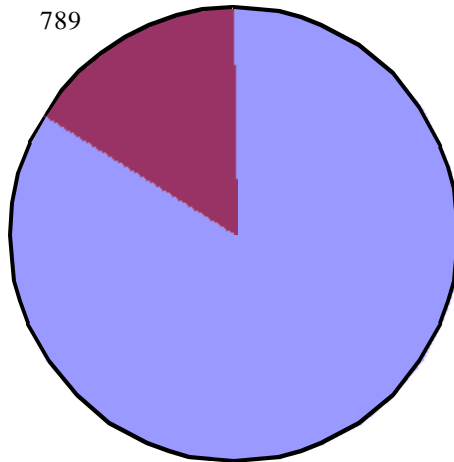
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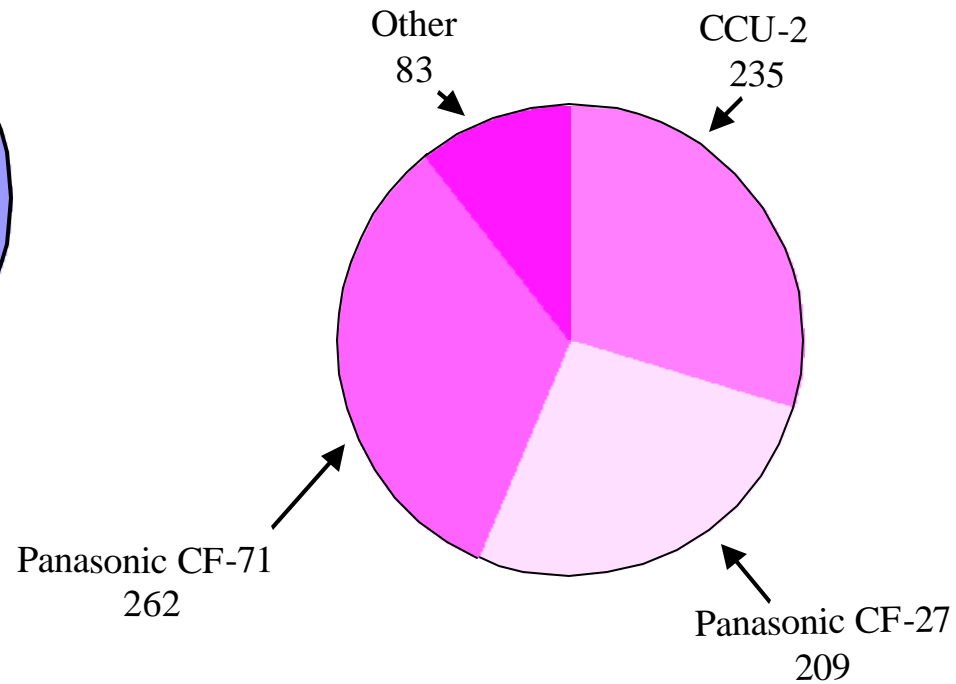
# The reason why we need the RLWG!

Non-MCHS Laptop  
789



MCHS Laptop  
4013

Laptop



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# Rugged Laptop Working Group

## A Subset of HWG

### **BACKGROUND**

The Marine Corps is determining if there is a justified need for different levels of ruggedized laptops. Currently, the Marine Corps Common Hardware Suite (MCHS) has only non-rugged laptop platforms. The semi-rugged, fully rugged, and ruggedized Ultra-Portable laptop will provide the Marine Corps with the option of choosing the best suited level of ruggedization for most operational environments which the operational forces and some garrison forces currently operate in.

### **MISSION/PURPOSE**

The RLHWG is responsible to research, develop, and recommend common rugged laptop solutions, to include logistics and contractual support. The RLHWG recommended hardware solution will become part of the MCHS.



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# Rugged Laptop Working Group



## Working Group Representation

PM TMDE	Test, Measurement and Diagnostic Equipment
PM SST	Training Systems
PM IS	Information Systems
CSLE	Combat Support and Logistic Equipment
PM INTEL	Intelligence
PM AM	Ammunition
PSE	Program Support and Engineering
MCTSSA	Marine Corps Tactical Systems Support Activity
PM OC	Operations Center
PM AD	Air Defense / Fire Support



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# Key Focal Points



- Business Case Analysis - Booz-Allen & Hamilton
- Testing - CRANE
- Request For Quotes (RFQ)



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# OBJECTIVES FOR BUSINESS CASE ANALYSIS



- Provide survivability characteristics and differences with respect to both rugged vs. straight COTS computing environments.
- Provide the climate survivability failure rate differences between COTS and Ruggedized CPUs.
- Provide typical unit price cost differences between COTS and Ruggedized CPUs.



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# OBJECTIVES FOR BUSINESS CASE ANALYSIS (Con't)



- The three basic categories of equipment are Fully-ruggedized, Semi-ruggedized, and Ultra Portable equipment.
- Determine the mix of COTS and Rugged computers that result in the lowest lifecycle cost.
- Predict fiscal year loss rates for each computer class and the environment that each CPU will be subjected to.
- Provide cost analysis of GFE using NMCI limited-service embarkable portable seat vs. NMCI full-service embarkable portable seat.



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# TESTING



- The objective of this testing is to evaluate and characterize the environmental performance of specific rugged and COTS laptop computers.

## **Testing Includes:**

- Dust
- Humidity
- Rain
- Operational
- Non-Operational



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# TESTING (Con't)



- Transit Drop Shock
- Low Temperature Storage
- High Temperature Storage
- Vibration
- Low Temperature Operating
- High Temperature Operating
- TEST REPORT. NSWCC Crane shall prepare a final report documenting the results of the tests and evaluations performed.



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# Request For Quotes (RFQ)



- The basis of the RFQ is that the vendor can provide the services based on a Firm Fixed Price Delivery Order through GSA Schedules using Blanket Purchase Agreements.



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# **MCHS Waiver Process And MCHS Policy**

**MSgt Doug Trathowen**



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# ITSG Waiver Brief





# USMC C4 Plans and Policies

## MCHS Waiver Process

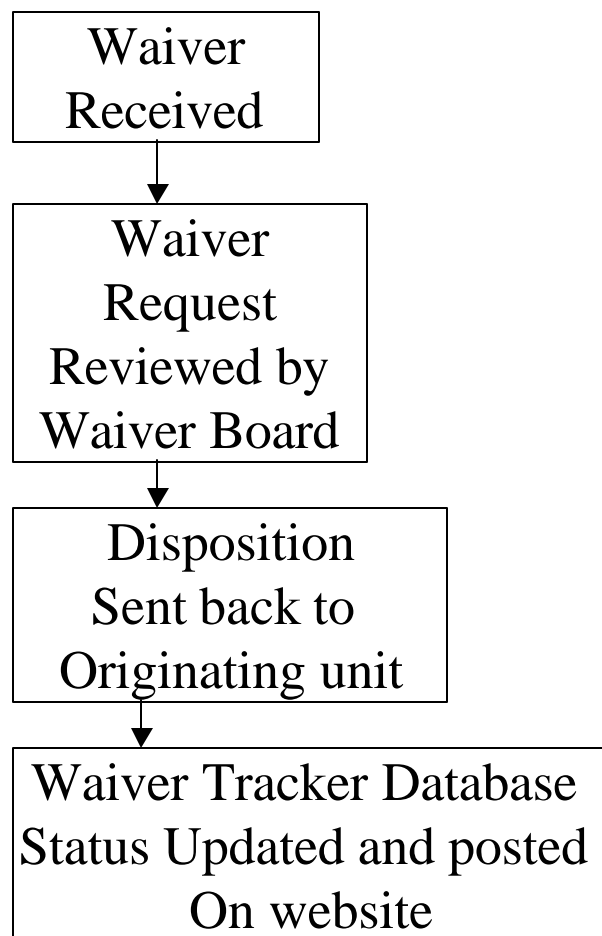
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- IT Waiver POC's at HQMC C4 –
  - MSgt Doug Trathowen DSN 327-5569
  - Mr. Larry Long DSN 327-5589
- Internet addresses:
  - For Waivers: [CIO\\_Policy@hqmc.usmc.mil](mailto:CIO_Policy@hqmc.usmc.mil)
  - For Waiver info: [www.cio.usmc.mil/c4](http://www.cio.usmc.mil/c4) and then click on “NMCI”
- References:
  - ASN(RD&A) memo dtd Oct 19, 2000
  - ASN(RD&A) clarification memo dtd Dec 29, 2000
  - CMC P&R/C4 message 040900Z JAN 01
  - CMC P&R/C4 clarification message 231130Z JAN 01



# C4 Waiver Process



## C4 Goals

**Waiver Board meets weekly  
(set for Thursdays)**

**Dispositions within 5 Days**



# C4 Waiver Information

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- **Standard waiver submission and decision format forthcoming on web page**
- **Chain of Command must be utilized**
  - **Single POC/Advocate preferred at the highest level**
- **Waiver Tracker Database will be available on website**
- **Waiver board consists of C4, I&L (LB), PM-NMCI/IT, and P&R**



# **Review of C4 Waiver Requirements**

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- **For all servers, desktops, and laptops**
  - **Ref 040900Z JAN 01 and 231130Z JAN 01**
- **For hardware, software, or services in excess of \$25K**
  - **I&L and MATCOM HCA's have agreed to delegate approving authority to Dir and Deputy Dir C4**
  - **Blessed by ASN(RD&A)**



# **Review of C4 Waiver Requirements**

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- **For purchase or lease of garrison IT hardware, software, and services**
  - **Mainframe/Mid-Tier computer, Server and Workstation hw/sw**
  - **Peripherals**
  - **Networking hw/sw**
  - **Networking infrastructure**
  - **Personal Portable devices**
  - **VTC**
  - **Software Development/Life Cycle maintenance**

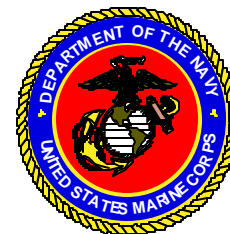


# **Review of Waivers Not Required**

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- **Ref 231130Z JAN 01**
  - **Deployed hardware/software/services**
  - **Repair maintenance services, equipment, parts or components**
  - **Replacement of hardware devices in which repair would be not economical**
  - **Consumables**



# NMCI

## Maj Hom

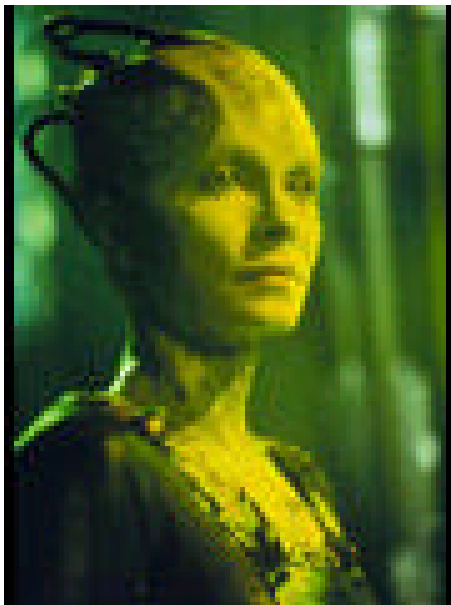


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# *HQMC Policy*



*Resistance is futile  
You will be assimilated  
by  
NMCI*



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# ***Navy Marine Corps Intranet: A Marine Corps Perspective***

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**Maj Hom**  
**PM NMCI/IT**  
**homdd@mcsc.usmc.mil**



# *CMC's Observations*

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*“If we tried to do this ourselves, we would wind up losing pace with technology”*

National Defense Magazine

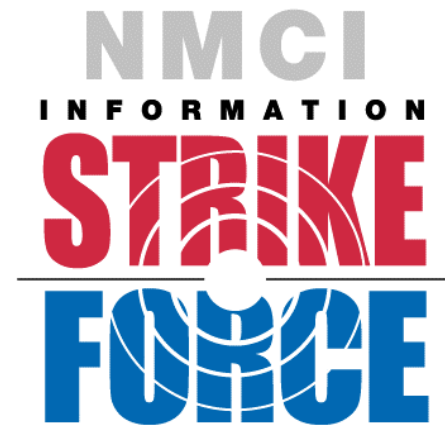
*“It is also a tool to bring the Navy and Marine Corps closer together”*

American Forces Press Service



# *Navy Marine Corps Intranet*

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*NMCI will result in an enterprise-wide managed service that will provide the Marine Corps and the Navy with secure, universal access to voice, video and data information exchange services.*



# ***Marine Corps NMCI Goals***

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- **Near-Term Goals**
  - **Execute NMCI transition ON TIME ... NO disruption to current MCEN operations**
    - **Start 3QFY02**
    - **Complete 1QFY03**
- **Long-Term Goals**
  - **Establish a Seamless network**
    - **Extension on current MCEN**
      - **An additional tool to the warfighter**
      - **Maintain operational control**
      - **Not just a Garrison network**
    - **No distinction between CONUS & OCONUS**
  - **Leverage increased NMCI capabilities across the Corps**
    - **Revised SOPs**
    - **More efficient organization**



# *Overview of NMCI*



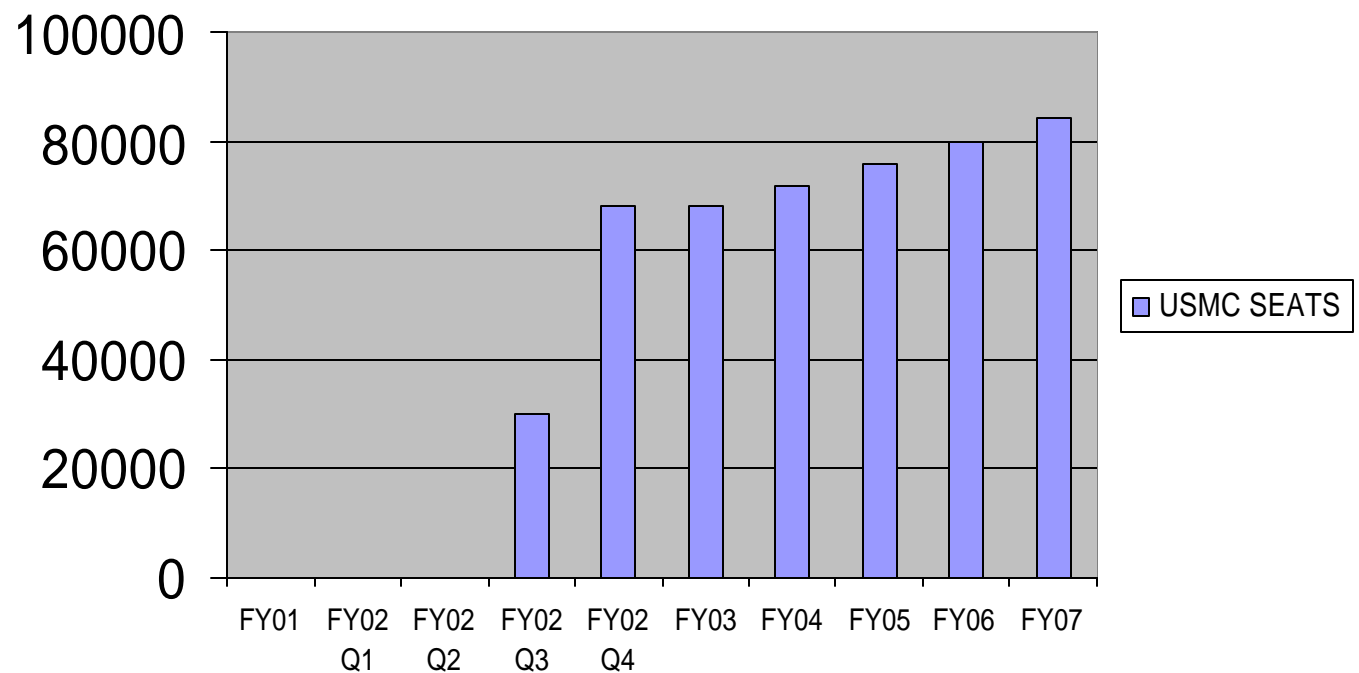
- NMCI contract awarded 6 October, 2000
  - **Five** base years ... **One** three-year option
  - Buying IT services and capabilities - **SEATS**
  - **NOT** buying hardware and supporting infrastructure
- NMCI will build on existing MCEN efforts
  - Will upgrade Marine Corps Garrison Environment
  - 68,000 – Contract Minimum
    - Includes approximately 8,000 OCONUS seats
    - Actually....\$\$\$\$ available/allocated
  - Expect to complete transition 1QFY03
  - No distinction between CONUS and OCONUS
- Video and Data services will be initially purchased
  - Voice option to be evaluated at a later date



# *Marine Corps NMCI Phasing Plan*

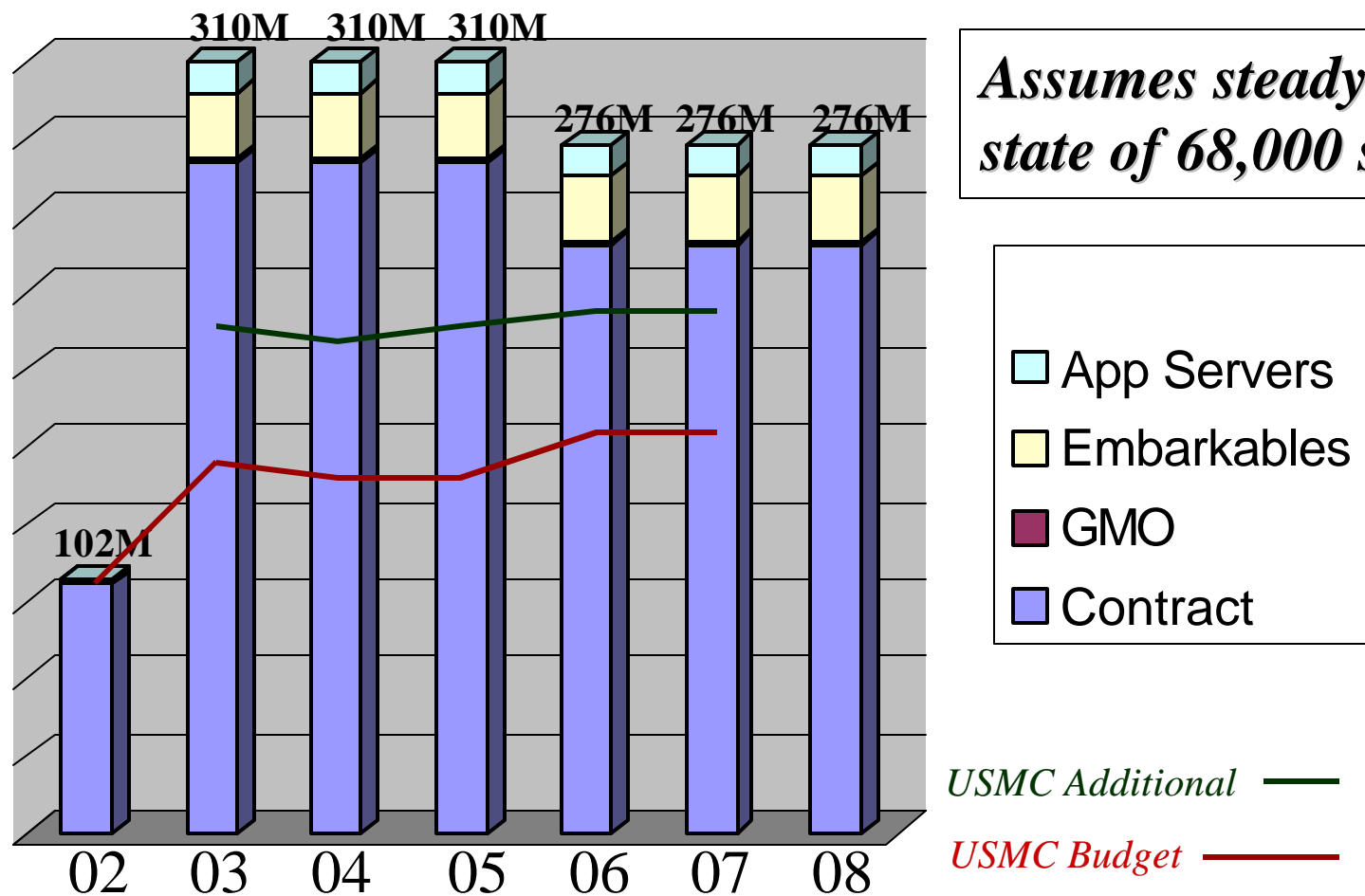
- Phasing Plan 3<sup>rd</sup> & 4<sup>th</sup> Qtr FY02
- 10,000 seats per month
- Assumption: Far East transitions 4<sup>th</sup> Qtr FY02

## USMC SEATS





## Cost



# Standard Data Seat



# High End Upgrade Seat

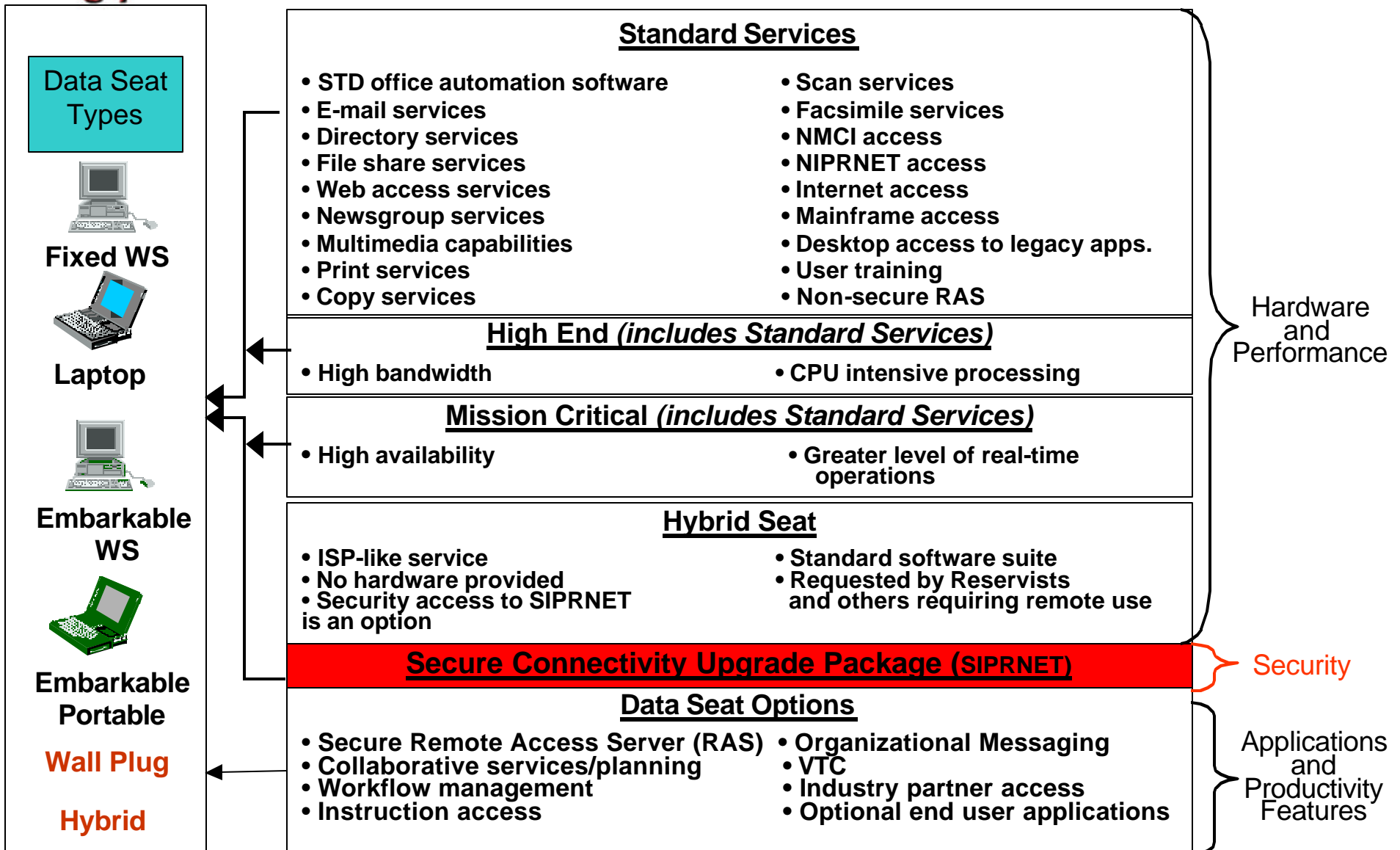


# Portable Seat





# NMCI Data Seat Services





# *Description of NMCI CLINs*

CLIN	TITLE
0001AA	<b>Fixed Workstation - Red Seat - \$2958.12 per year.</b> Pentium III 800MHz Provides performance for use with 2-D and light 3-D graphics or engineering-related applications, applications that require additional processing capability.
0001AB	<b>Fixed Workstation - White Seat - \$2863.68 per year.</b> Pentium III 733MHz Ideal for the typical user of Microsoft Office Professional software.
0001AC	<b>Fixed Workstation - Blue Seat - \$2788.08 per year.</b> Celeron 566MHZ. Provides adequate performance for daily office productivity applications. Ideal for administrative functions.
0001AD	<b>Fixed Workstation - Thin Client - \$2335.92 per year.</b> Celeron 566MHZ. Cost-effective solution for task-based applications, allows centralized control of applications with desktop access from any location.
0002	<b>Portable Seat - \$3699.00 per year.</b> Dell Latitude C600. Provides excellent performance for office productivity software. Supports users needing remote access to NMCI. Makes high-quality presentations while on travel.
0003AA	<b>Embarkable Workstation Seat - Full Service - \$5622.00 per year.</b> Pentium PIII-866Mhz. Embarkable workstations may be periodically deployed and used in an expeditionary or field environment.
0003AB	<b>Embarkable Workstation Seat - Limited Service - \$2626.44 per year.</b> An Embarkable workstation not provided by the ISF with direct, local connectivity to NMCI IAW security requirements; receives all basic data seat services.
0004AA	<b>Embarkable Portable Seat - Full Service - \$4509.36 per year.</b> Celeron 400MHz. Embarkable portable seats periodically deployed and used in an expeditionary or field environment, subject to rough handling and climatic extremes
0004AB	<b>Embarkable Portable Seat - Limited Service - \$2706.48 per year.</b> An Embarkable portable workstation not provided by the ISF with direct, local connectivity to NMCI IAW security requirements; receives all basic data seat services



# *Description of NMCI CLINs*

CLIN	TITLE
0005AA	<b>Hybrid Seat – Basic - \$2317.32 per year.</b> Provides access to NMCI with proper authentication and access control for remote users with workstations not provided by the ISF. This seat gets Email and directory services only.
0005AB	<b>Hybrid Seat – Enhanced - \$2500.20 per year.</b> Provides access to NMCI with proper authentication and access control for remote users with workstations not provided by the ISF. This seat gets full access to NMCI services.
0005AC	<b>Hybrid Seat – Lite – &lt;\$500 per year (still being negotiated).</b> Provides secure toll-free email services with GFE Smart Card reader and card. Security policy is the cost driver.
0006	<b>Wall Plug Service - \$720.00 per year .</b> This service provides an additional Local Area Network (LAN) drop beyond that provided with a data seat's office location.
0007	<b>High-end Seat Upgrade Package - Additional \$2456.04 per year.</b> Order with CLIN0001AA Red, CLIN002, CLIN0003AA, and CLIN0004AA. Enhanced hardware configurations. Meets all SLA's at Level of Service 2.
0008	<b>Mission-Critical Seat Upgrade Package - Additional \$2186.88 per year.</b> Order with CLIN0001AA Red, CLIN002, CLIN0003AA, and CLIN0004AA. Level of Service 3 provides for fastest response, problem resolution, and max availability.
0009	<b>Classified Connectivity Upgrade Package - Additional \$3026.04 per year.</b> Order with CLIN0001AA Red, CLIN002, CLIN0003AA, and CLIN0004AA. Adds SIPRNET access and capability.
0019	Classified/non-classified selectable connectivity allows the user to move between classified and non-classified networks and configurations while on the same workstation, provided that Item 0009 has been ordered and Government approved components/system configurations have been used for that workstation.
0023	This Catalog of Optional User Capabilities is posted for informational and estimating purposes, and is in no way intended to bind the Navy to specific services or prices contained herein.



# ***Basic Software***

Software		
Services	Software Description	Vendor
Operating System	MS Windows 2000	Microsoft
Dial Up Networking	MS Dial Up Networking	Microsoft
Office Suite	MS Office Pro 2000	Microsoft
Email Client	MS Outlook 2000	Microsoft
Electronic Diary	MS Outlook 2000	Microsoft
Collaboration Tool	MS Netmeeting 2000	Microsoft
Internet Browser	MS Internet Explorer 5.0	Microsoft
DB Runtime	Access 2000 Snapshot	Microsoft
Virus Protection	Inoculan AntiVirus V4.10	CA
Virus Protection	Inoculan AntiVirus Client Pack 10 User	CA
PDF Viewer	Acrobat Reader	Adobe
Terminal Emulator - Host (3270)	Reflections 7.0 NFS	WRQ
Compression Tool	NikoMak Winzip	NikoMak
WebControls	Java Update + VBScript 2.0	Microsoft
WebControls	MacroMedia Flash ActiveX V3.0	MacroMedia
WebControls	Director 7 Shockwave Internet Studio Single	MacroMedia
Scan Viewer	Visioneer Paperport Viewer	Visioneer
Media Player	Real Player G2	RealPlayer
VBRuntime	VB4, VB5 and VB6 Runtime	Microsoft
Dial Up Configuration	NMCI RAS Manager	Internal Utility
Software Installer	NMCI Installer	Internal Utility
Version Checker	COE Version Tracker	Internal Utility



# *Services Included in NMCI*

## *Seat Costs*

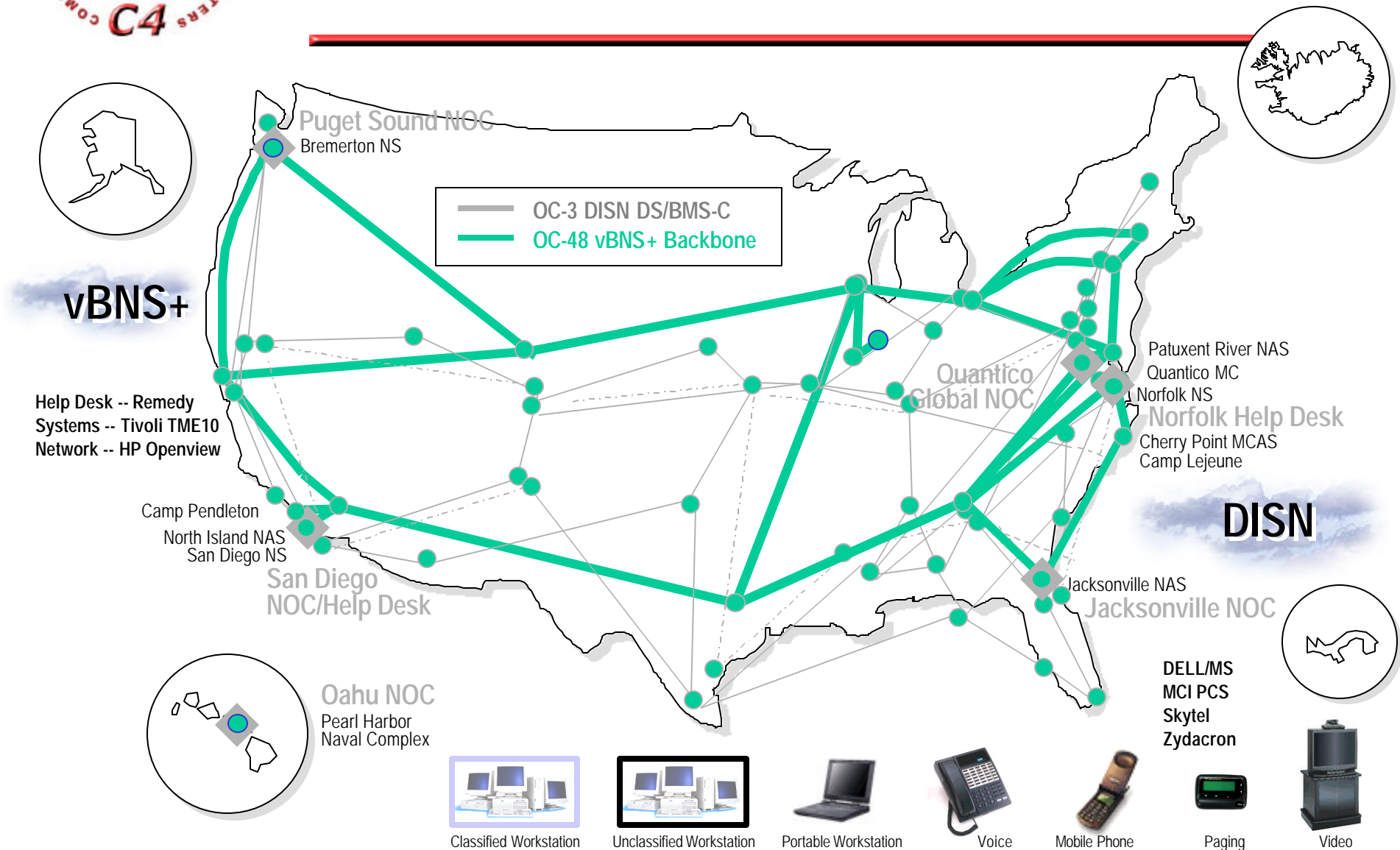
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- Security Services (firewalls, intrusion detection, encryption)
- CAC/PKI Implementation
- Wide Area Network Access (DISN, Commercial WAN, internet)
- Infrastructure (voice, video, & data transport)
- Joint and Industry Network Interoperability
- Pier Services (connectivity, NOC/JFTOC interface)
- Enterprise Functions (Help Desk/Tech Support)
- Network Mgmt. Services
- Desktop Hardware (standard, high-end, and laptop)
- Desktop Software (standard software suite)
- Organizational Messaging (AUTODIN, DMS)
- Training
- Directory Services
- E-mail
- Remote Telephone Access
- Domain Name Service
- Help Desk/Tech Support
- LAN (building LANs)
- System Mgmt. Services

*Standard set of services required for interoperability and security*



# Service Sets





# ***NMCI Service Delivery Transition Plan***

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- **Phase I – Workforce development**
  - Site approval of NMCI order qty & configuration(s)
  - Initiate personnel transition activities
- **Phase IIa – Detailed engineering**
  - Planning
- **Phase IIb - Equipment transformation**
  - Execution
- **Phase III – Achieving SLAs**
  - Monitor system performance
  - Complete final user training
- **Phase IV – Continuous improvement**
  - Address performance issues
  - Continue infrastructure improvements
- **Phase V – Feedback**
  - Document & incorporate lessons learned

***No disruption in service!***



## ***Military Personnel***

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- **606 Supporting Establishment IT Billets replaced by NMCI**
  - **251 Marines to work with EDS**
    - CWO-1 thru CWO-3 MOS 4010 & Capt MOS 0602
    - E5 thru E7; MOS's 2818, 2821, & 4066
    - Quantico, Camp Lejeune, Camp Pendleton, Camp Butler, MARFORPAC / KBay
  - **355 Returned to OpFor or Critical Fills**
- **T/O/Line # Detail**
  - **Review by TFS & C4**
- **Extensive Scrub of Manpower Implications**
  - **No extraordinary effects on:**
    - Promotion Opportunities, grade shaping, leadership experience





# ***Civilian Transition Planning***

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- **C4 Data Call May '00**
  - **Requested Military / Civilian / Contractor Data**
  - **CivPers Data:**
    - **M&RA to Frame NMCI Report to Congress 30 June 00**
- **WIPT Established under NMCI IPT**
  - **Reps from major commands, human resources offices, unions**
- **Tasks:**
  - **Develop POA&M**
    - **Cover November 2000-September 2002**
  - **Develop Transition Plans for Civilian Marines**
    - **331 affected employees**
    - **Establish residual organization**
      - **Consider grade structure/promotional opportunities**
    - **Identify projected costs (relocation, training, etc.)**
    - **Training/retraining plan**
    - **Communications plan**
- **Bottom Line...No Reduction in Force!**



# ***USMC Organization***

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- **HQMC C4**
  - **Functional Program Oversight**
  - **Chair Marine Corps NMCI Transition IPT**
  - **Co-chair of the NMCI Stakeholder's Council**
- **MITNOC**
  - **Control over Day-to-day NMCI operations**
    - **Within the Marine Corps COI**
    - **Direct Operational Execution / Contractor Interface**
  - **Coordinate enterprise network operations with Navy CTF NMCI**
  - **Continued Tactical & Deployed Support / CND**
- **MARCORSYSCOM**
  - **PM-NMCI / GMO**
- **Stakeholders / Marine Corps NMCI IPT Members**
  - **HQMC Staff Orgs, MARFOR's, MCCDC, MATCOM, MARCORSYSCOM, TECOM**



# ***NMCI IPT***

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- C4 Lead
- Purpose:

*Provide HQMC Staff Orgs, MCCDC, MARFOR's, MATCOM, TECOM & MARCORSYSCOM a Forum for Coordination, Guidance, and Execution of the NMCI Contract*

- Process Concurred by IPT Members
- Scope: To frame the efforts which lead toward:
  - **Organizational Planning**
  - **Process Engineering / Reengineering**
  - **Transition & Implementation Planning**
- Meetings to Date Focused on:
  - **Issues Identification**
    - **Prioritization, Parking Lot**
  - **Organization and WIPT designation**



# ***HQMC C4 NMCI***

## ***Roles and Responsibilities:***

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- **Develop Marine Corps NMCI policy**
  - Under the guidance of the Marine Corps CIO
  - For Marine Corps CIO approval
- **Oversee disseminating and implementing that policy**
  - For the Marine Corps COI within the NMCI
- **Work with MCSC to draft NMCI program mgmt policy**
  - Assist in NMCI program management
- **Oversight of MITNOC and MARFOR-CND operations**
  - MITNOC reports directly to HQMC C4
- **Co-chair the NMCI Stakeholders' council**



# ***MITNOC NMCI***

## ***Roles and Responsibilities:***

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- **Responsibility for Marine Corps NMCI network operations**
  - Includes responsibility for technical standards
- **Implement policy formulated by HQMC C4**
- **Primary interface with the NMCI contractor**
  - For day-to-day operations and technical issues
  - Coordinate with the NMCI contractor on network performance issues
- **Coordinate enterprise efforts with CTF NMCI**
- **Responsibility for supporting deployed operating forces**
- **Coordinate with and take direction from the MARFOR-CND**
  - For the defense of the NMCI
- **Primary Marine Corps interface with the DISA GOSC**
  - Global Operations Support Center
- **Assist the MCSC NMCI PM to determine appropriate metrics**
  - Monitor NMCI contractor performance



# ***MARCORSYSCOM NMCI***

## ***Roles and Responsibilities:***

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- **Responsibility for Marine Corps NMCI acquisition matters**
  - Oversight over all aspects of Marine Corps NMCI program management
- **Implements NMCI policy**
  - As it relates to program management and acquisition issues
- **Acts as Marine Corps Combined NMCI PMO/GMO**
  - Contains Marine Corps ACO, PM, CTRs & CORs
- **Serves as the primary POC to Marine Corps NMCI users**
  - For requests for moves, adds or changes (MACs)
  - Through designated Marine Corps CTRs and CORs
- **Provide technical assistance to the MITNOC for acquisition issues**
- **Single Marine Corps COI POC for all out-of-scope issues**
- **Primary Marine Corps interface with DISN Provisioning Office**
- **Determine appropriate metrics for monitoring NMCI contractor performance to ensure agreed upon service levels are met**
  - Work with MITNOC and other organizations as necessary to gather the required data for forwarding to the Marine Corps ACO/NMCI PCO



## ***OCONUS***

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- **OCONUS infrastructure integral with CONUS**
  - Already part of current MCEN
  - 1/3 of Marine Corps operational organization
- **Integral part of Marine Corps NMCI transition**
- **Marine Corps ACO working on pricing issues**
  - Reducing current price of CLIN 36AA
  - Credit for current MCEN infrastructure
- **OCONUS infrastructure investment decisions in work**
  - Op Forces need planned improvements now
- **Address and work SOFA and HNA issues early**
  - Prevent delays in transition of OCONUS sites
    - And associated disruption of services



## ***Issues / Additional IT Costs***

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- **Additional Seats / Options**
- **Legacy Applications / New Applications**
  - **CLIN 27 Bandwidth Allocation**
  - **CLIN 29 Legacy Systems Support**
- **Voice Services**
- **DISN Costs**
- **MITNOC**
  - **MCTN , CND, Deployed Support**
- **OCONUS**
  - **CLIN 36 AA**



## ***Contract Requirements for Government Furnished Facilities (GFF)***

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- **Three general categories**
  - **Network Operating Centers and Help Desks**
    - **Six contractor NOCs**
      - **One global, five regional NOCs**
      - **Two NOCs also handle help desk requirements**
    - **GNOC Location: Quantico, VA!**
      - **65,000 square foot requirement**
      - **Co-located with MITNOC**
  - **Server Farms**
    - **11 at USMC installations**
      - **66 stand alone server farms throughout DoN**
    - **Co-located at GNOC/RNOCs as applicable**
    - **Server farm size and location dependent on quantity of seats**
  - **Base Level Support**
    - **Small (S) = 1,350 square feet**
    - **Medium (M) = 2,250 square feet**
    - **Large (L) = 4,840 square feet**
    - **Extra Large (XL) = 14,500 square feet**



# ***GFF Actions Required by Commands***

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- **Server farms**
  - **Host commands should begin identifying potential sites now!**
    - **Marine Corps seat roll-out sched for 1 Apr 02**
    - **Six month site selection and facility development process**
      - **Server farms must be ready two months prior to roll-out**
      - **EDS requires a three month build-out period to get server farms ready**
      - **One month host command and EDS approval process**
- **Base level support**
  - **Base level support will be required at ALL installations**
    - **Required support proportional to number of NMCI seats**
  - **PMIT will provide EDS with total Marine Corps seat rqmts**
    - **Allocation by site**
    - **EDS will assess base level support GFF needs**
    - **EDS will provide detailed GFF rqmts back to PMIT**
  - **Identify current facilities used to support MCEN operations now**
    - **For turnover to EDS for contract base level support GFF rqmts**



## ***The NMCI Challenge...***

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- **NMCI is just an Enabler...**
- **Must reorganize Marine Corps standard operating procedures and processes to leverage the new capabilities and increased functionality offered by the NMCI**
  - **Better support for the warfighter**
    - **From the Marine Corps Supporting Establishment**
  - **Better interoperability with joint and allied forces for the DON**
  - **Get our money's worth**

**Goal: Increased Speed of Quality Decisions**



# ***Summary***

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- **NMCI is:**
  - **More expensive than current garrison IT expenditures...**
    - **BUT LESS** than would have been required to achieve a similar capability within MCEN
  - **Provides higher capability and increased functionality**
    - **Keeps USMC technologically current**
      - **Increased Bandwidth, N/W Availability, Refresh Rate**
    - **Levels the Playing Field between “Haves and Have-nots”**
  - **A contract to purchase a utility, NOT hardware or software**
  - **An enabler**
    - **To construct more efficient operational and business practices**
- **Represents a challenge**
  - **Will force a cultural change in the use, management, and identified utility of IT Resources**
- **Includes ALL of the USMC**
  - **CONUS and OCONUS**
  - **68K Seats (\$310 M)**
    - **Contract minimum – Not a ceiling**



# ***NMCI Services CLIN List***

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<b>CLIN</b>	<b>Description</b>
<b>0001AA</b>	<b>Fixed Work Station, Red</b>
<b>0001AB</b>	<b>Fixed Work Station, White</b>
<b>0001AC</b>	<b>Fixed Work Station, Blue</b>
<b>0001AD</b>	<b>Fixed Work Station, Thin Client</b>
<b>0001AE</b>	<b>Remote User Credit</b>
<b>002</b>	<b>Portable Seat</b>
<b>0003AA</b>	<b>Embarkable Work Station, Full Service</b>
<b>0003AB</b>	<b>Embarkable Work Station, Limited Service</b>
<b>0004AA</b>	<b>Embarkable Portable Seat, Full Service</b>
<b>0004AB</b>	<b>Embarkable Portable Seat, Limited Service</b>
<b>0005AA</b>	<b>Basic Hybrid Seat</b>
<b>0005AB</b>	<b>Enhanced Hybrid Seat</b>



# ***NMCI Services CLIN List cont'd***

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<b>CLIN</b>	<b>Description</b>
<b>006</b>	<b>Wall Plug Service</b>
<b>007</b>	<b>High-End Upgrade Packages</b>
<b>007</b>	<b>For CLIN 0001AA Fixed Workstation Red</b>
<b>007</b>	<b>For CLIN 002 Portable</b>
<b>007</b>	<b>For CLIN 0003AA Full Service Embarkable</b>
<b>007</b>	<b>For CLIN 0004AA Full Service Embarkable Portable</b>
<b>008</b>	<b>Mission-Critical Seat Upgrade Package</b>
<b>009</b>	<b>Classified Connectivity Upgrade Package</b>
<b>0010AA</b>	<b>Basic Voice Seat</b>
<b>0010AB</b>	<b>Business Voice Upgrade Package</b>
<b>0010AC</b>	<b>Mission-Critical Voice Seat Upgrade Package</b>
<b>0010AD</b>	<b>Pier Voice Line</b>



# ***NMCI Services CLIN List cont'd***

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<b>CLIN</b>	<b>Description</b>
<b>0010AE</b>	<b>Pier Voice Trunk</b>
<b>0010AF</b>	<b>Commercial Voice Seat</b>
<b>0010AG</b>	<b>Commercial Voice Connectivity</b>
<b>011</b>	<b>Secure Voice Seat</b>
<b>012</b>	<b>Mobile Phone Seat</b>
<b>013</b>	<b>Personal Paging Service Seat</b>
<b>014</b>	<b>Fixed Video Teleconference Seat</b>
<b>015</b>	<b>Moveable Video Teleconference Seat</b>
<b>0015AA</b>	<b>Basic Moveable VTC</b>
<b>0015AB</b>	<b>High-End Moveable VTC Seat</b>
<b>0015AC</b>	<b>Mission-Critical Moveable VTC Seat</b>
<b>0015AD</b>	<b>Premium Moveable VTC Seat</b>



# ***NMCI Services CLIN List cont'd***

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<b>CLIN</b>	<b>Description</b>
<b>016</b>	<b>Additional File Share Services</b>
<b>017</b>	<b>Internet Access for Mobile Phone Seat</b>
<b>018</b>	<b>Classified Remote Access Service</b>
<b>019</b>	<b>Classified/Non-Classified Selectable Connectivity</b>
<b>020</b>	<b>Data Seat Voice Communications Upgrade</b>
<b>021</b>	<b>Defense Messaging System Data Seat Upgrade</b>
<b>0022AA</b>	<b>Basic Desktop VTC</b>
<b>0022AB</b>	<b>High-End Desktop VTC</b>
<b>023</b>	<b>Optional User Capabilities</b>
<b>024</b>	<b>Additional Non-classified Account</b>
<b>025</b>	<b>Additional Classified Account</b>
<b>0026AA</b>	<b>Additional Moves, Adds, and Changes</b>



# ***NMCI Services CLIN List cont'd***

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<b>CLIN</b>	<b>Description</b>
<b>0026AB</b>	<b>Physical Moves, Adds, and Changes, Group of 50</b>
<b>0026AC</b>	<b>Physical Moves, Adds, and Changes, Group of 250</b>
<b>0026AD</b>	<b>COI Moves, Adds, and Changes</b>
<b>0026AE</b>	<b>Voice Moves, Adds, and Changes</b>
<b>0026AF</b>	<b>VTC Moves, Adds, and Changes</b>
<b>0027AA</b>	<b>Standard Low Bandwidth Application</b>
<b>0027AB</b>	<b>Standard Medium Bandwidth Application</b>
<b>0027AC</b>	<b>Standard High Bandwidth Application</b>
<b>0027AD</b>	<b>Mission-Critical Low Bandwidth Application</b>
<b>0027AE</b>	<b>Mission-Critical Medium Bandwidth Application</b>
<b>0027AF</b>	<b>Mission-Critical High Bandwidth Application</b>
<b>028</b>	<b>Data Warehousing</b>



# ***NMCI Services CLIN List cont'd***

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<b>CLIN</b>	<b>Description</b>
<b>029</b>	<b>Legacy Systems Support</b>
<b>030</b>	<b>Network Operations Display</b>
<b>031</b>	<b>Military Personnel Core Competency Development (Sea-Shore Rotation and Operating Forces/Supporting Establishment Rotations.</b>
<b>032</b>	<b>External Network Interface</b>
<b>033</b>	<b>Information Technology/Knowledge Management Retraining Program</b>
<b>034</b>	<b>Satellite Terminal Support</b>



# Questions, Review of Action Items And Closing Remarks



Tuesday 6 February 2001

Slides and additional information available at the MCHS Website : [HTTP://www.buyersguide.marcorsyscom.USMC.mil](http://www.buyersguide.marcorsyscom.USMC.mil)



# Action Items

**Mr. David Nguyen**



Tuesday 6 February 2001

Slides and additional information available at the MCHS Website : [HTTP://www.buyersguide.marcorsyscom.USMC.mil](http://www.buyersguide.marcorsyscom.USMC.mil)

# Action Items



- Identify R&D Projects
- Adopt Business Rules
- Accept New Members
- Assign Alternate Representative



Tuesday 6 February 2001

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# Questions?

## Mr. David Nguyen



Tuesday 6 February 2001

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# Closing Remarks

## LtCol Ochs



Tuesday 6 February 2001

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# Conference Objectives



- Establish HWG roles and responsibilities under the IWG process
- Provide MCHS background and program status to new members
- Maximize and consolidate computer hardware evaluations
- Establish a PM Partnership with respect to common hardware
- Identify new MCHS requirements/action items
- Provide an overview of NMCI and its impact upon MCHS



Tuesday 6 February 2001

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